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FISH BULLETIN 173

CALIFORNIA MARINE FISH LANDINGS FOR 1977 - 1986

by

MALCOLM S. OLIPHANT, PAUL A. GREGORY
BARBARA J. INGLE and ROSA MADRID

1990

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CHARLES W. HAUGEN, Editor
Fish Bulletin series

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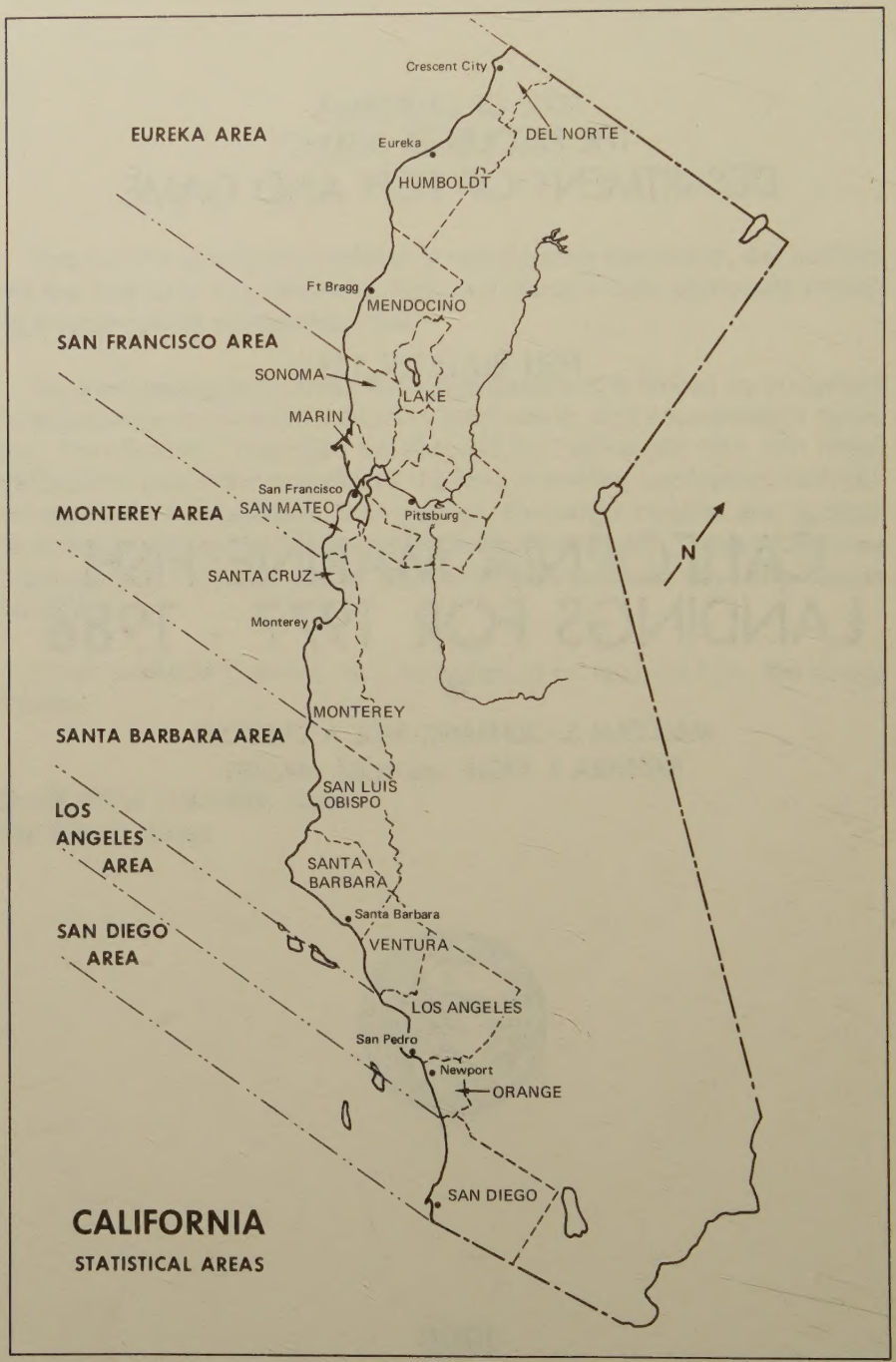

FIGURE 1. Geographical areas used to summarize California fisheries statistics.

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INTRODUCTION

Landing bulletins provide basic catch records of amounts and values of marine resources taken by California's commercial fisheries plus summarizations of catches by the passenger-carrying fishing industry. These figures are of local, national, and international significance to those interested in the wise utilization and management of California's living marine resources.

This report for 1977 through 1986 is the 37th in a series stemming from the first gathering of commercial fisheries landing data by the California Department of Fish and Game in 1916 and the subsequent first publication of these catch data in 1929 for the years 1926 and 1927.

California's fishery statistics are based on a system where fish dealers, processors, and operators of passenger-carrying fishing vessels send duplicate copies of their landing records to the department. Fish Bulletin 86 (Bureau of Marine Fisheries 1952), which reported the catch for 1950, describes fully the system and methods used in collecting commercial fish records. Basic principles remain the same today as then, although some methods and equipment have changed. Young (1969) described the passenger-carrying vessel industry in Fish Bulletin 145.

Credit for this publication is due largely to the cooperative efforts of the fishing industry, wholesale fish dealers, fishermen, canners, processors, and Department personnel responsible for the market receipt system who have, through their efforts, provided the most accurate statistics possible. The utmost appreciation is extended to this large group of people without which this publication would not be possible.

EXPLANATION OF TABLES

Tables in this bulletin summarize statistics of the various fishery operations in California from 1977 through 1986.

For the 10-year period this series of reports gives: commercial fish landings and value by area, imports of tuna (shipments) from other states or countries destined for processing in California, and Commercial Passenger Fishing Vessel (CPFV or partyboat) catches. Numbers of licensed commercial fishermen and registered fishing vessels are also reported. The commercial fish landings and shipments (imports) are combined in the tables for each year.

During the 10-year period of this report most of the major tuna canneries ceased their California operations, thus the sharp decline in shipment totals in the 1984-1985 period. The landings, shipments, and value tables are comparable to Table 15 in Oliphant (1979) and continue the data series of this table dating back to 1959.

Tables of the CPFV (partyboat) catches are comparable to Table 22 in Fish Bulletin 121 (Biostatistical Section, Marine Resources Operations 1963) which summarizes data back to 1936 and is continued in each year's catch bulletin up to 1976. This 10-year report will further continue the Table 22 data series of partyboat catches through 1986.

Statistics presented in this publication do not encompass all marine fishing activities in California since not all of these functions are reported to us. For example, recreational fishing from private boats or from shore is not reported, nor is the quantity of fish imported for use in a fresh state compiled.

Landing and shipment data in these reports are listed in pounds. To convert these values to metric, the following factors are provided:

1 pound = 453.59 grams
1 pound = 0.454 kilograms
1 ton (net or short) = 0.907 metric ton

Statistical Areas

California is divided into six areas for the purpose of reporting fisheries statistics (Figure 1). Each statistical area is named for a major port within its boundaries.

Species

The common and scientific names of species reported here are mostly those designated by the Department in Gates and Frey (1974) or in general common usage. Some species are reported only collectively when, for economic or other reasons, their separation is not practical (Table 1).

Value

Value is computed from prices paid to fishermen. Area value figures are ascertained by summing the value of all individual landings in that area. When the price paid for an individual landing is not specified, the average price paid for the species in the area is used.

Source of data

Data concerning each commercial landing and import are recorded on receipts by fish dealers or processors at the time of delivery. Copies of these documents are transmitted to the Department twice each month. For each transaction the dealer must provide data concerning the species, weight, and price paid to the

fisherman. The date of the transaction, the fisherman's name, the fishing boat registration number, and intended use of the fish (canning, fresh, etc.) also are required. In addition, type of gear used and the specific area where the fish were caught may be reported.

Catch data for commercial passenger-carrying fishing vessels are obtained from logs completed by the boat operator. The required log for each trip indicates the number of each species taken, number of anglers on board, number of hours fished, and the specific area fished. The date, boat name, and boat registration number also are furnished. Copies of these records are sent to the Department monthly.

Clerical personnel at field offices in Eureka, Menlo Park, Long Beach, and San Diego maintain contact with fish dealers, local Fish and Game wardens, and field biologists to insure that the records are accurate and transmitted promptly. All data received by the Department are carefully edited for completeness and coded to facilitate processing.

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TABLE 1. Common and Scientific Names of Species Reported in the 1977-1986 Catch

Common name	Scientific name
FISHES	
Anchovy, northern	*Engraulis mordax*
Barracuda, California	*Sphyraena argentea*
Bass	
Barred sand	*Paralabrax nebulifer*
Giant sea	*Stereolepis gigas*
Kelp	*Paralabrax clathratus*
Spotted sand	*Paralabrax maculatofasciatus*
Blacksmith	*Chromis punctipinnis*
Bonito, Pacific	*Sarda chiliensis*
Butterfish, Pacific	*Peprilus simillimus*
Cabezon	*Scorpaenichthys marmoratus*
Croaker, white	*Genyonemus lineatus*
Dolphinfish	*Coryphaena hippurus*
Eel	*Anarrhicthys ocellatus* and *Gymnothorax mordax*
Flounder	
Arrowtooth	*Atheresthes stomias*
Miscellaneous	Family Pleuronectidae
Starry	*Platichthys stellatus*
Flyingfish	*Cypselurus californicus*
Grenadier	*Albatrossia pectoralis* and *Coryphaenoides acrolepis*
Grouper	*Mycteroperca* spp.
Guitarfish, shovelnose	*Rhinobatos productus*
Hake, Pacific	*Merluccius productus*
Halfmoon	*Medialuna californiensis*
Halibut	
California	*Paralichthys californicus*
Pacific	*Hippoglossus stenolepis*
Herring, Pacific	*Clupea pallasi*
Lingcod	*Ophiodon elongatus*
Louvar	*Luvarus imperialis*
Mackerel	
Jack	*Trachurus symmetricus*
Pacific	*Scomber japonicus*
Mullet, striped	*Mugil cephalus*
Opah	*Lampris guttatus*
Opaleye	*Girella nigricans*
Queenfish	*Seriphus politus*
Rockfish	
Blackgill	*Sebastes melanostomus*
Group, bocaccio/chilipepper	*Sebastes paucispinis* and *Sebastes goodei*
Group, red	*Sebastes miniatus* and other "red" species
Group, rosefish	*Sebastes diploproa* and *Sebastes aurora*

TABLE 1. (continued) Common and Scientific Names of Species Reported in the 1977-1986 Catch

Common name	Scientific name
Rockfish	
Miscellaneous	*Sebastes* spp.
Widow	*Sebastes entomelas*
Sablefish	*Anoplopoma fimbria*
Salmon	
King	*Oncorhynchus tshawytscha*
Pink	*Oncorhynchus gorbuscha*
Silver	*Oncorhynchus kisutch*
Sanddab, Pacific	*Citharichthys sordidus*
Sardine, Pacific	*Sardinops sagax caeruleus*
Sculpin	*Scorpaena guttata*
Seabass, white	*Atractoscion nobilis*
Shark	
Bigeye thresher	*Alopias superciliosus*
Bonito	*Isurus oxyrinchus*
Common thresher	*Alopias vulpinus*
Leopard	*Triakis semifasciata*
Miscellaneous	Families Alopiidae, Carcharhinidae, Lamnidae, and Squalidae
Pacific angel	*Squatina californica*
Soupfin	*Galeorhinus zyopterus*
Sheephead, California	*Semicossyphus pulcher*
Skates and rays	Families Rhinobatidae, Rajidae, and Myliobatididae
Smelt	
Top or jack	Family Atherinidae
True	Family Osmeridae
Whitebait	*Allosmerus elongatus*
Sole	
Butter	*Isopsetta isolepis*
Dover	*Microstomus pacificus*
English	*Parophyrs vetulus*
Petrale	*Eopsetta jordani*
Rex	*Glyptocephalus zachirus*
Rock	*Lepidopsetta bilineata*
Sand	*Psettichthys melanostictus*
Surfperch	Family Embiotocidae
Swordfish	*Xiphias gladius*
Thornyhead	*Sebastolobus* spp.
Tuna	
Albacore	*Thunnus alalunga*
Bigeye	*Thunnus obesus*
Blackfin	*Thunnus atlanticus*
Bluefin	*Thunnus thynnus*
Skipjack	*Katsuwanus pelamis*
Skipjack, black	*Euthynnus lineatus*
Yellowfin	*Thunnus albacares*

TABLE 1. (continued) Common and Scientific Names of Species Reported in the 1977-1986 Catch

Common name	Scientific name
Turbot	
Curlfin	*Pleuronichtys decurrens*
Diamond	*Hypsopsetta guttulata*
Hornyhead	*Pleuronichthys verticalis*
Wahoo	*Acanthocybium solanderi*
Whitefish, ocean	*Caulolatilus princeps*
Yellowtail	*Seriola lalandi*
CRUSTACEANS	
Crab	
Dungeness	*Cancer magister*
California king	*Paralithodes* spp.
Rock	*Cancer* spp.
Spider	*Loxorhynchus* spp.
Lobster, California spiny	*Panulirus interruptus*
Prawn	
Ridgeback	*Sicyonia ingentis*
Spot	*Pandalus platyceros*
Shrimp	
Bay	*Crangon* spp.and *Palaemon macrodactylus*
Pacific ocean	*Pandalus jordani*
ECHINODERMS	
Sea cucumber	Class Holothuroidea
Sea urchin	*Strongylocentrotus* spp.
MOLLUSKS	
Abalone	
Black	*Haliotis cracherodii*
Green	*Haliotis fulgens*
Pink	*Haliotis corrugata*
Red	*Haliotis rufescens*
Threaded	*Haliotis assimilis*
White	*Haliotis sorenseni*
Clam	Miscellaneous marine bivalves
Mussel	*Mytilus* spp.
Octopus	*Octopus* spp.
Oyster	
Eastern	*Crassostrea virginica*
Giant Pacific	*Crassostrea gigas*
European flat	*Ostrea edulis*
Scallop, weathervane	*Patinopectin caurinus*
Snail, sea	Miscellaneous marine gastropods
Squid	
Jumbo	*Dosidicus gigas*
Market	*Loligo opalescens*

TABLE 2. Total Annual Landings and Shipments into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships, 1930-1938

Year	Thousands of pounds	Year	Thousands of pounds
1916	95,003	1951	904,114
1917	209,877	1952	694,996
1918	261,134	1953	618,919
1919	266,270	1954	713,410
1920	222,004	1955	710,713
1921	135,348	1956	772,551
1922	182,343	1957	738,550
1923	253,875	1958	832,919
1924	340,446	1959	713,423
1925	437,502	1960	694,663
1926	394,964	1961	725,253
1927	487,166	1962	663,107
1928	583,527	1963	592,899
1929	856,854	1964	591,131
1930	702,189	1965[a]	544,480
1931	502,390	1966	591,533
1932	556,139	1967	589,028
1933	821,805	1968	567,214
1934	1,390,798	1969	672,793
1935	1,448,017	1970	798,415
1936	1,764,900	1971[b]	687,995
1937	1,362,984	1972	845,699
1938	1,310,596	1973	1,006,431
1939	1,486,535	1974	938,118
1940	1,297,518	1975	979,826
1941	1,528,892	1976	1,047,761
1942	1,173,414	1977	1,045,147
1943	1,234,049	1978	918,035
1944	1,459,456	1979	849,554
1945	1,216,501	1980	1,010,527
1946	919,822	1981	971,959
1947	795,499	1982	846,765
1948	900,467	1983	649,602
1949	1,135,339	1984	496,296
1950	1,366,676	1985	367,012
		1986	422,585

a. Beginning in 1965, only tuna shipments are recorded.
b. Beginning in 1972, commercial freshwater fish landings are not included in these totals.

TABLE 3.* Number of Licensed Commercial Fishermen and Registered Fishing Boats

License year	Licensed commercial fishermen	Commercially registered fishing vessels
1976-77	14,948	7,268
1977-78	17,407	8,421
1978-79	20,298	9,654
1979-80	20,018	9,644
1980-81	20,363	9,229
1981-82	18,862	8,427
1982-83	19,176	8,173
1983-84	15,509	8,282
1984-85	14,383	7,660
1985-86	14,579	7,170
1986-87	14,558	6,992

*These data are a parcel of those presented in Tables 4 and 5 of previous catch bulletins.

TABLE 4*. Value of Landings and Shipments of Commercial Fish Into California by Area, 1977

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	508,772	17,693,580	29,562,600	175,187,124	1,258	222,953,334
	-	$52,918	$379,425	$630,909	$3,988,655	$437	$5,052,344
Barracuda, California..	-	-	-	5,033	66,271	5,815	77,119
	-	-	-	$2,498	$32,091	$2,680	$37,269
Bass, giant sea.....	-	-	-	1,133	30,874	17,356	49,363
	-	-	-	$550	$13,664	$8,857	$23,071
Bonito, Pacific.....	-	72	252	7,697	16,951,158	5,588,426	22,547,605
	-	$7	$76	$1,307	$3,270,316	$1,086,584	$4,358,290
Butterfish, Pacific....	100	-	32,444	13,213	8,774	1,443	55,974
	$7	-	$29,760	$5,542	$3,582	$686	$39,577
Cabezon.....	377	1,836	3,345	6,430	138	24	12,150
	$76	$366	$547	$782	$37	$8	$1,816
Croaker, white.....	-	28,320	184,322	161,650	206,820	7,439	588,551
	-	$8,584	$26,816	$49,082	$26,153	$2,670	$113,305
Dolphinfish.....	-	-	26	342	124	10,154	10,646
	-	-	$13	$158	$38	$2,757	$2,966
Flounder, arrowtooth...	222,300	-	-	-	-	-	222,300
	$17,417	-	-	-	-	-	$17,417
Flounder, miscellaneous	416,118	461,288	68,000	44,631	52	12	990,101
	$62,879	$70,478	$18,497	$7,641	$18	$4	$159,517
Flyingfish.....	-	-	-	-	83,871	129	84,000
	-	-	-	-	$26,866	$45	$26,911
Grenadier.....	98,622	3,701	-	-	-	-	102,323
	$6,373	$269	-	-	-	-	$6,642
Grouper.....	-	-	-	-	5,768	1,761	7,529
	-	-	-	-	$1,443	$1,009	$2,452
Hake, Pacific.....	80,936	10	1,158	4,704	5	-	86,813
	$4,064	$5	$23	$835	$2	-	$4,929
Halfmoon.....	-	-	-	10	31,474	9,236	40,720
	-	-	-	$1	$11,390	$3,602	$14,993
Halibut, California....	293	40,517	14,913	296,072	74,566	41,501	467,862
	$496	$31,124	$15,506	$305,975	$71,860	$35,663	$460,624
Herring, Pacific.....	45,281	11,440,822	167,177	-	-	-	11,653,280
	$8,550	$1,745,206	$10,646	-	-	-	$1,764,402
Lingcod.....	849,538	491,468	174,947	176,623	1,203	760	1,694,539
	$151,698	$86,647	$32,526	$31,312	$352	$184	$302,719
Mackerel.....	4,778	125	383,442	11,338,880	100,538,230	17,381	112,282,836
	$288	$23	$23,283	$538,324	$4,843,384	$4,867	$5,410,169
Mullet, striped.....	-	-	-	-	3,780	2,954	6,734
	-	-	-	-	$1,172	$1,215	$2,387
Queenfish.....	-	-	-	104	18,110	-	18,214
	-	-	-	$10	$1,957	-	$1,967
Rockfish.....	7,017,253	1,819,528	5,051,097	5,540,330	479,576	992,521	20,900,305
	$1,106,676	$380,652	$913,016	$1,020,589	$168,598	$334,273	$3,923,804
Sablefish.....	4,471,835	1,365,167	5,008,409	848,561	1,614,426	7,577	13,315,975
	$616,419	$254,306	$657,712	$107,322	$206,103	$1,334	$1,843,196
Salmon.....	3,380,522	1,748,007	602,578	196,024	867	35	5,928,633
	$6,625,702	$3,594,888	$1,220,713	$442,356	$2,623	$48	$11,886,330

Sanddab, Pacific.....	379,447	353,473	74,105	2,239	166	185	809,615
	$92,376	$86,178	$17,851	$519	$75	$118	$197,117
Sardine, Pacific.....	-	-	-	-	3,837	739	4,576
	-	-	-	-	$191	$390	$581
Sculpin.....	-	-	-	-	2,458	114,276	116,734
	-	-	-	-	$1,370	$51,356	$52,726
Seabass, white.....	-	229	10,466	49,642	574,663	564,644	1,199,644
	-	$251	$12,173	$45,904	$422,935	$404,786	$886,049
Shark, bonito	-	-	355	4,618	12,292	2,646	19,911
	-	-	$45	$1,058	$2,791	$655	$4,549
Shark, common thresher.	-	35	264	36,108	81,271	11,844	129,522
	-	$11	$58	$12,373	$27,631	$2,570	$42,643
Shark, Pacific angel...	-	-	37	329	-	-	366
	-	-	$7	$105	-	-	$112
Shark, soupfin	11,639	91,232	11,231	13,230	6,631	28,203	162,166
	$2,956	$17,805	$1,705	$4,550	$2,404	$9,915	$39,335
Shark, miscellaneous...	1,250	103,382	81,261	420,131	327,863	136,798	1,070,685
	$220	$21,773	$11,012	$61,993	$65,466	$47,333	$207,797
Sheephead, California..	-	-	-	1,291	4,043	1,075	6,409
	-	-	-	$238	$1,108	$275	$1,621
Skate.....	55,054	22,358	77,995	5,809	210	-	161,426
	$10,400	$4,063	$6,770	$1,090	$55	-	$22,378
Smelt, top or jack.....	-	937	29,424	-	11,987	418	42,766
	-	$98	$1,569	-	$1,709	$106	$3,482
Smelt, true.....	522,052	28,948	7,431	8	-	-	558,439
	$46,095	$6,905	$1,254	$1	-	-	$54,255
Smelt, whitebait.....	283,373	23,053	13,341	-	-	-	319,767
	$55,368	$4,128	$2,917	-	-	-	$62,413
Sole, Dover.....	14,963,881	4,092,255	2,721,374	146,341	-	-	21,923,851
	$2,352,362	$662,025	$443,402	$20,116	-	-	$3,477,905
Sole, English.....	1,552,277	1,054,893	321,162	474,626	23	76	3,403,057
	$378,366	$255,917	$63,915	$104,133	$4	$27	$802,362
Sole, petrale.....	934,517	524,808	252,877	488,511	-	-	2,200,713
	$303,065	$171,670	$80,443	$152,243	-	-	$707,421
Sole, rex.....	1,078,348	308,399	91,003	70,256	-	-	1,548,006
	$242,079	$72,712	$17,201	$15,562	-	-	$347,554
Sole, sand.....	53,323	176,667	3,091	10,684	-	-	243,765
	$15,302	$51,227	$837	$3,022	-	-	$70,388
Sole, miscellaneous....	46,655	6,827	1,939	4,329	704	758	61,212
	$7,733	$1,527	$613	$1,029	$221	$297	$11,420
Surfperch	26,598	29,030	55	13,727	15,404	25,419	110,233
	$8,666	$14,860	$14	$6,521	$5,150	$9,671	$44,882
Swordfish.....	-	392	377	72,404	310,474	127,741	511,388
	-	$1,176	$1,131	$173,905	$759,164	$334,000	$1,269,376
Thornyhead.....	2,338,516	507,091	371,789	19,345	-	-	3,236,741
	$364,459	$79,374	$58,181	$3,018	-	-	$505,032
Tuna, albacore.....	2,031,988	1,722,307	4,020,333	1,084,117	1,889,045	5,157,050	15,904,840
	$1,170,762	$988,466	$2,318,754	$627,780	$1,107,556	$2,970,517	$9,183,835
Tuna, bigeye.....	-	-	-	-	1,242,435	2,097,710	3,340,145
	-	-	-	-	$482,100	$855,982	$1,338,082
Tuna, bluefin.....	-	-	-	194	4,733,921	2,205,879	6,939,994
	-	-	-	$61	$1,956,380	$855,947	$2,812,388
Tuna, skipjack.....	-	-	1,641	873	45,966,739	35,651,036	81,620,289
	-	-	$567	$263	$15,813,982	$12,646,319	$28,461,131
Tuna, skipjack, black..	-	-	-	-	543,075	292,771	835,846
	-	-	-	-	$54,313	$24,383	$78,696

TABLE 4 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1977

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, yellowfin.....	-	-	-	-	116,726,589	78,869,600	195,596,189
	-	-	-	-	$45,112,988	$30,719,008	$75,831,996
Turbot.....	6,529	5,930	237	7,266	23	-	19,985
	$1,808	$1,623	$71	$954	$7	-	$4,463
Wahoo.....	-	-	-	-	4,065	8,386	12,451
	-	-	-	-	$2,173	$3,584	$5,757
Yellowtail.....	-	-	-	422	1,669,059	145,169	1,814,650
	-	-	-	$86	$343,947	$37,032	$381,065
Miscellaneous fish.....	1,896	451	394	530	1,391	2,324	6,986
	$96	$125	$37	$124	$634	$792	$1,808
Crustacean:							
Crab, Dungeness.....	33,325,545	299,304	8,058	14,956	-	-	33,647,863
	$15,553,166	$178,594	$5,664	$13,716	-	-	$15,751,140
Crab, rock.....	565	216	29	492,860	510,226	79,119	1,083,015
	-	$93	$15	$118,185	$172,161	$25,641	$316,095
Lobster, California spiny.....	-	-	-	48,853	88,770	113,945	251,568
	-	-	-	$116,045	$219,297	$271,521	$606,863
Prawn, ridgeback.....	-	-	-	2,972	-	-	2,972
	-	-	-	$1,487	-	-	$1,487
Prawn, spot.....	-	-	13,506	40,332	-	-	53,838
	-	-	$37,955	$59,533	-	-	$97,488
Shrimp, Pacific Ocean..	13,863,465	2,002,159	2,120	3,588	-	-	15,871,332
	$3,143,369	$458,598	$6,521	$958	-	-	$3,609,446
Miscellaneous crustacean....	-	-	-	200	2,272	-	2,472
	-	-	-	$50	$576	-	$626
Echinoderm:							
Sea urchin.....	355,520	26,281	4,213	13,065,912	1,668,650	1,415,719	16,536,295
	$35,545	$6,058	$331	$1,290,301	$170,163	$126,855	$1,629,253
Miscellaneous echinoderm....	-	-	-	-	1,259	-	1,259
	-	-	-	-	$161	-	$161
Mollusk:							
Abalone, black.....	-	-	-	360,718	83,605	18,978	463,301
	-	-	-	$213,597	$48,967	$9,136	$271,700
Abalone, green.....	-	-	-	3,409	65,529	28,519	97,457
	-	-	-	$4,280	$82,555	$31,778	$118,613
Abalone, pink.....	-	-	-	151,220	85,900	81,374	318,494
	-	-	-	$174,139	$107,546	$91,303	$372,988
Abalone, red.....	-	97,672	-	382,756	12,328	44,694	537,450
	-	$114,667	-	$425,608	$12,014	$46,633	$598,922
Abalone, threaded.....	-	30	-	804	-	19	853
	-	$32	-	$508	-	$19	$559
Abalone, white.....	-	-	-	1,532	10,248	5,823	17,603
	-	-	-	$2,680	$13,515	$8,825	$25,020
Abalone, miscellaneous.	-	-	-	921	-	27	988
	-	-	-	$668	-	$27	$736
Mussel.....	-	4,245	45	-	-	-	4,290
	-	$3,305	$23	-	-	-	$3,328
Octopus.....	27,471	3,583	1,906	1,198	143	110	34,411
	$8,715	$1,197	$941	$304	$63	$54	$11,274
Oyster, eastern.....	-	2,992	-	-	-	-	2,992
	-	$12,417	-	-	-	-	$12,417

Snail, sea.....	436	51	-	89	15,811	271	16,658
	$29	$14	-	$50	$3,164	$79	$3,336
Squid, market.....	932	-	4,468,975	5,365,607	18,387,169	21,096	28,243,779
	$120	-	$462,281	$191,821	$824,595	$1,937	$1,480,754
Miscellaneous mollusk..	-	288	-	-	92	-	380
	-	$173	-	-	$32	-	$205
Total pounds.....	89,018,040	29,674,779	41,976,724	71,150,916	490,363,581	133,960,200	856,144,240
Total value.....	$33,013,705	$9,742,967	$6,882,817	$7,084,780	$80,489,467	$51,075,771	$188,289,507
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	15,767,490	1,402,803	17,170,293
	-	-	-	-	$12,225,593	$1,045,557	$13,271,150
Tuna, bigeye.....	-	-	-	-	464,773	207,383	672,156
	-	-	-	-	$243,179	$92,168	$335,347
Tuna, bluefin.....	-	-	-	-	557,022	1,708,516	2,265,538
	-	-	-	-	$226,652	$682,133	$908,785
Tuna, skipjack.....	-	-	-	-	104,394,086	30,533,080	134,927,166
	-	-	-	-	$43,414,024	$13,117,337	$56,531,361
Tuna, skipjack,black...	-	-	-	-	286,966	-	286,966
	-	-	-	-	$21,957	-	$21,957
Tuna, yellowfin.....	-	-	-	-	14,119,866	19,560,520	33,680,386
	-	-	-	-	$6,650,331	$7,729,280	$14,379,611
Total pounds.....	-	-	-	-	135,590,203	53,412,302	189,002,505
Total value.....	-	-	-	-	$62,781,736	$22,666,475	$85,448,211
Grand total pounds..	**89,018,040**	**29,674,779**	**41,976,724**	**71,150,916**	**625,953,784**	**187,372,502**	**1,045,146,745**
Grand total value...	**$33,013,705**	**$9,742,967**	**$6,882,817**	**$7,084,780**	**$143,271,203**	**$73,742,246**	**$273,737,718**

* Tables 4 through 13 are equivalent to Tables 15 in previous catch bulletins.

TABLE 5. Value of Landings and Shipments of Commercial Fish Into California by Area, 1978

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	822,874	851,790	13,419,000	10,164,928	324	25,258,916
	-	$118,393	$27,297	$309,852	$239,659	$103	$695,304
Barracuda, California..	-	-	-	747	40,911	6,779	48,437
	-	-	-	$471	$25,614	$3,406	$29,491
Blacksmith.....	-	-	-	-	1,500	-	1,500
	-	-	-	-	-	-	-
Bass, giant sea.....	-	-	-	5,180	45,852	15,195	66,227
	-	-	-	$2,654	$28,848	$8,435	$39,937
Bonito, Pacific.....	-	-	12,528	51,448	5,509,261	2,309,159	7,882,396
	-	-	$3,407	$10,674	$1,008,810	$467,954	$1,490,845
Butterfish, Pacific....	218	131	30,451	22,980	35,434	598	89,812
	$55	$193	$23,183	$10,848	$21,635	$338	$56,252
Cabezon.....	42	4,457	5,446	18,218	618	-	28,781
	$20	$1,004	$907	$3,262	$212	-	$5,405
Croaker, white.....	340	45,966	67,798	88,029	205,529	14,626	422,288
	$189	$17,878	$16,026	$28,105	$51,684	$4,729	$118,611
Flounder, arrowtooth...	206,178	425	-	-	-	-	206,603
	$18,328	$58	-	-	-	-	$18,386
Flounder, miscellaneous	229,326	455,917	88,485	49,151	35	29	822,943
	$42,718	$84,322	$31,309	$10,215	$28	$12	$168,604
Flyingfish.....	-	-	-	-	182,715	-	182,715
	-	-	-	-	$73,075	-	$73,075
Grenadier.....	59,933	10,969	360	-	-	-	71,262
	$5,444	$965	$36	-	-	-	$6,445
Grouper.....	-	-	-	3,117	801	187	4,105
	-	-	-	$1,174	$273	$94	$1,541
Hake, Pacific.....	641,374	106,335	-	-	-	-	747,709
	$61,586	$9,571	-	-	-	-	$71,157
Halfmoon.....	-	-	-	33	7,358	3,969	11,360
	-	-	-	$7	$3,110	$2,031	$5,148
Halibut, California....	-	46,483	30,726	227,029	102,121	35,081	441,440
	-	$42,515	$27,188	$278,042	$112,731	$36,292	$496,768
Herring, Pacific.....	50,203	9,736,483	73,257	73	103	-	9,860,119
	$15,227	$3,259,941	$5,765	$28	$21	-	$3,280,982
Lingcod.....	1,061,019	702,028	139,615	109,260	2,600	938	2,015,460
	$233,076	$141,642	$33,327	$24,594	$1,589	$260	$434,488
Mackerel.....	2,963	892	17,906	8,818,530	85,084,860	74,278	93,999,429
	$39	$157	$2,875	$518,097	$4,830,788	$12,250	$5,364,206
Opaleye.....	-	-	-	868	2,670	53	3,591
	-	-	-	$224	$1,132	$13	$1,369
Queenfish.....	-	-	580	4	43,199	-	43,783
	-	-	$58	$1	$9,910	-	$9,969
Rockfish.....	7,577,786	2,838,703	3,207,810	4,971,102	896,576	1,018.387	20,510,364
	$1,409,356	$613,797	$707,244	$1,249,888	$374,498	$396,797	$4,751,580
Sablefish.....	4,757,579	1,729,398	5,459,708	1,164,890	4,594,766	9,383	17,715,724
	$1,148,874	$368,851	$1,017,500	$227,802	$634,212	$1,904	$3,399,143
Salmon.....	4,100,813	1,441,550	861,201	406,303	1,123	-	6,810,990
	$6,117,807	$2,410,415	$1,713,398	$806,962	$692	-	$11,049,274

Sanddab, Pacific.....	414,064	230,181	94,142	3,762	913	144	743,206
	$117,209	$66,444	$25,223	$945	$640	$52	$210,513
Sardine, Pacific.....	-	-	-	-	1,920	-	1,920
	-	-	-	-	$116	-	$116
Sculpin.....	-	-	918	24	14,805	55,462	71,209
	-	-	$231	$3	$8,843	$28,477	$37,554
Seabass, white.....	-	-	2,891	41,448	599,143	517,273	1,160,755
	-	-	$3,435	$47,408	$519,048	$427,689	$997,580
Shark, common thresher.	-	30	-	135,794	160,366	5,883	302,073
	-	$12	-	$54,099	$64,588	$1,622	$120,321
Shark, Pacific angel...	-	364	-	81,744	275	-	82,383
	-	$73	-	$9,126	$138	-	$9,337
Shark, soupfin.....	11,441	75,358	5,508	24,817	37,451	21,495	176,070
	$3,357	$18,134	$1,404	$9,161	$15,931	$9,112	$57,099
Shark, miscellaneous...	1,432	119,529	58,504	586,701	316,090	102,155	1,184,411
	$142	$23,176	$11,033	$72,667	$126,413	$42,494	$275,925
Sheephead, California..	-	-	-	2,712	7,292	1,140	11,144
	-	-	-	$2,733	$2,277	$256	$5,266
Skate.....	145,460	35,017	48,514	45,649	417	-	275,057
	$34,909	$8,237	$4,747	$5,513	$121	-	$53,527
Smelt, top or jack.....	-	-	867	2,176	5,153	490	8,686
	-	-	$175	$285	$755	$120	$1,335
Smelt, true.....	67,041	3,697	10,741	2,864	23,451	74	107,868
	$9,775	$1,338	$2,832	$419	$2,959	$30	$17,353
Smelt, whitebait.....	260,346	3,751	-	55	297	-	264,449
	$74,563	$882	-	$7	$45	-	$75,497
Sole, Dover.....	14,049,473	4,344,325	2,262,845	113,443	-	-	20,770,086
	$2,651,932	$828,421	$427,828	$17,654	-	-	$3,925,835
Sole, English.....	1,878,088	1,270,847	342,896	482,911	-	40	3,974,782
	$509,886	$349,565	$76,423	$116,507	-	$13	$1,052,394
Sole, petrale.....	1,160,490	739,199	274,689	459,604	62	-	2,634,044
	$437,968	$272,576	$101,013	$174,856	$36	-	$986,449
Sole, rex.....	1,083,564	299,956	118,711	34,901	215	-	1,537,347
	$303,658	$85,392	$30,541	$8,511	$97	-	$428,199
Sole, sand.....	78,425	157,849	542	12,699	-	-	249,515
	$25,747	$51,654	$176	$4,148	-	-	$81,725
Sole, miscellaneous....	33,251	15,129	2,361	7,372	1,465	255	59,833
	$6,293	$4,719	$898	$2,165	$483	$102	$14,660
Surfperch.....	48,145	19,814	1,224	55,644	25,036	24,201	174,064
	$18,881	$11,019	$543	$36,251	$8,234	$10,428	$85,356
Swordfish.....	190	-	480	333,106	1,753,864	516,593	2,604,233
	$285	-	$840	$571,384	$3,080,665	$921,439	$4,574,613
Thornyhead.....	2,012,201	618,221	285,843	12,882	-	-	2,929,147
	$369,447	$113,830	$53,226	$2,475	-	-	$538,978
Tuna, albacore.....	2,472,626	1,998,062	5,908,093	3,511,394	3,043,255	4,615,998	21,549,428
	$1,464,258	$1,213,956	$3,608,121	$2,133,607	$2,397,027	$2,802,477	$13,619,446
Tuna, bigeye.....	-	-	-	-	2,474,625	313,703	2,788,328
	-	-	-	-	$1,039,346	$131,790	$1,171,136
Tuna, bluefin.....	-	-	-	-	6,908,588	2,652,755	9,561,343
	-	-	-	-	$2,959,597	$1,105,925	$4,065,522
Tuna, skipjack.....	120	382	275	7,562	75,255,853	61,921,799	137,185,991
	$73	$148	$202	$2,935	$29,705,318	$22,986,876	$52,695,552
Tuna, skipjack, black..	36	-	-	-	824,680	364,281	1,188,997
	$8	-	-	-	$82,476	$36,912	$119,396
Tuna, yellowfin.....	-	1,196	-	16,797	109,478,172	81,604,139	191,100,304
	-	$471	-	$6,962	$46,094,926	$33,470,273	$79,572,632

TABLE 5 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1978

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, miscellaneous....	-	-	944	-	1,602	134	2,680
	-	-	$500	-	$1,243	$44	$1,787
Turbot.....	7,660	5,000	210	5,287	3,681	64	21,902
	$2,448	$1,357	$75	$1,079	$2,942	$18	$7,919
Wahoo.....	-	-	-	-	280	8,059	8,339
	-	-	-	-	$140	$3,784	$3,924
Whitefish, ocean.....	-	-	-	1,268	732	371	2,371
	-	-	-	$499	$200	$132	$831
Yellowtail.....	-	-	-	532	248,399	211,851	460,782
	-	-	-	$236	$74,991	$72,829	$148,056
Miscellaneous fish.....	1,510	2,621	4,562	29,575	25,465	1,894	65,627
	$365	$750	$722	$7,745	$8,911	$812	$19,305
Crustacean:							
Crab, Dungeness.....	8,335,616	942,097	6,150	78,114	83	137	9,362,197
	$6,353,637	$884,637	$6,240	$39,941	$42	$49	$7,284,546
Crab, California king..	-	-	-	811	1,628	-	2,439
	-	-	-	$778	$410	-	$1,188
Crab, rock.....	34,327	2,121	-	618,313	222,038	80,075	956,874
	$7,735	$1,617	-	$189,604	$101,572	$31,668	$332,196
Crab, spider.....	-	-	-	511	1,408	-	1,919
	-	-	-	$142	$365	-	$507
Lobster, California	-	254	-	164,675	188,629	207,428	560,986
spiny.....	-	$953	-	$411,481	$510,450	$564,486	$1,487,370
Prawn, ridgeback.....	-	-	-	45,716	-	-	45,716
	-	-	-	$29,166	-	-	$29,166
Prawn, spot.....	1,263	-	11,137	55,147	-	-	67,547
	-	-	$31,464	$81,801	-	-	$113,265
Shrimp, Pacific ocean..	13,879,587	2,776	79	4,937	-	-	13,887,379
	$3,643,429	$3,098	$13	$7,600	-	-	$3,654,140
Shrimp, miscellaneous..	-	-	-	52	-	-	52
	-	-	-	$185	-	-	$185
Miscellaneous	-	-	-	56	38	-	94
crustacean....	-	-	-	$20	$10	-	$30
Echinoderm:							
Sea cucumber.....	-	-	-	1,413	7,367	-	8,780
	-	-	-	$714	$3,705	-	$4,419
Sea urchin.....	7,542	39,251	4,880	10,095,292	2,685,772	1,594,810	14,427,547
	$880	$8,563	$747	$1,181,950	$313,937	$159,303	$1,665,380
Miscellaneous	-	-	-	-	4,290	-	4,290
echinoderm....	-	-	-	-	$661	-	$661
Mollusk:							
Abalone, black.....	-	27	-	272,004	136,979	10,966	419,976
	-	$66	-	$197,655	$93,965	$8,366	$300,052
Abalone, green.....	-	-	-	3,903	74,227	14,912	93,042
	-	-	-	$6,634	$113,584	$23,121	$143,339
Abalone, pink.....	-	8	-	163,829	98,164	25,334	287,335
	-	$13	-	$230,991	$146,185	$35,371	$412,560
Abalone, red.....	-	84,331	-	369,839	6,025	28,952	489,147
	-	$122,039	-	$500,408	$8,237	$35,023	$665,707

Abalone, white.....	-	-	-	184	2,552	912	3,648
	-	-	-	$338	$4,191	$1,629	$6,158
Abalone, miscellaneous.	-	192	-	1,678	-	7	1,877
	-	$448	-	$1,696	-	$10	$2,154
Clam.....	48	400	-	43	-	100	591
	$34	$80	-	$22	-	$60	$196
Mussel.....	-	12,415	723	-	-	-	13,138
	-	$13,307	$362	-	-	-	$13,669
Octopus.....	32,743	3,363	893	1,679	147	165	38,990
	$12,673	$1,243	$414	$476	$68	$98	$14,972
Oyster, eastern.....	-	270	-	-	-	-	270
	-	$1,426	-	-	-	-	$1,426
Oyster, European flat..	-	423	-	-	-	-	423
	-	$2,438	-	-	-	-	$2.438
Oyster, giant Pacific..	636,325	309,737	-	78,372	-	-	1,024,434
	$591,782	$472,126	-	$72,888	-	-	$1,136,796
Snail, sea.....	-	315	-	201	20,415	96	21,027
	-	$28	-	$67	$4,864	$25	$4,984
Squid, jumbo.....	-	-	-	-	31,000	-	31,000
	-	-	-	-	$1,860	-	$1,860
Squid, market.....	202	143	20,655,397	2,584,009	14,558,476	401	37,798,628
	$75	$57	$2,192,416	$97,916	$631,480	$55	$2,921,999
Total pounds.....	65,340,990	29,281,262	40,952,680	49,909,463	326,175,745	158,393,534	670,053,674
Total value.....	$25,694,168	$11,633,995	$10,191,364	$9,824,549	$95,551,490	$63,847,575	$216,743,141
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	27,109,806	8,989,274	36,099,080
	-	-	-	-	$19,834,550	$7,048,675	$26,883,225
Tuna, bigeye.....	-	-	-	-	2,532,622	392,522	2,925,144
	-	-	-	-	$1,809,700	$145,825	$1,955,525
Tuna, bluefin.....	-	-	-	-	41,790	385,682	427,472
	-	-	-	-	$17,134	$158,130	$175,264
Tuna, skipjack.....	-	-	-	-	74,191,130	70,067,070	144,258,200
	-	-	-	-	$32,728,099	$29,268,253	$61,996,352
Tuna, skipjack, black..	-	-	-	-	139,935	-	139,935
	-	-	-	-	$14,223	-	$14,223
Tuna, yellowfin.....	-	-	-	-	26,009,237	38,122,483	64,131,720
	-	-	-	-	$15,623,910	$17,572,342	$33,196,252
Total pounds.....	-	-	-	-	130,024,520	117,957,031	247,981,551
Total value.....	-	-	-	-	$70,027,616	$54,193,225	$124,220,841
Grand total pounds..	**65,340,990**	**29,281,262**	**40,952,680**	**49,909,463**	**456,200,265**	**276,350,565**	**918,035,225**
Grand total value...	**$25,694,168**	**$11,633,995**	**$10,191,364**	**$9,824,549**	**$165,579,106**	**$118,040,800**	**$340,963,982**

TABLE 6. Value of Landings and Shipments of Commercial Fish Into California by Area, 1979

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	949,466	7,161,700	17,247,400	82,011,400	26,215	107,396,181
	-	$112,632	$211,111	$418,519	$2,121,020	$1,359	$2,864,641
Barracuda, California..	-	-	196	1,952	17,398	17,781	37,327
	-	-	$59	$1,342	$12,786	$11,135	$25,322
Blacksmith.....	-	-	-	-	16,338	-	16,338
	-	-	-	-	$868	-	$868
Bass, giant sea.....	492	79	869	4,407	15,748	19,347	40,942
	$172	$84	$1,321	$3,372	$10,092	$13,547	$28,588
Bonito, Pacific.....	8	-	796	21,993	3,127,970	809,304	3,960,071
	$8	-	$254	$5,109	$606,638	$177,185	$789,194
Butterfish, Pacific....	1,827	538	29,127	25,554	72,265	931	130,242
	$1,497	$619	$30,914	$12,836	$36,242	$473	$82,581
Cabezon.....	-	6,369	3,890	40,046	3	19	50,327
	-	$1,477	$885	$5,880	$1	$4	$8,247
Croaker, white.....	211	69,954	113,964	124,874	402,419	4,893	716,315
	$84	$33,935	$31,611	$37,760	$102,452	$1,612	$207,454
Eel.....	-	87	64	1,805	167	-	2,123
	-	$8	$10	$1,134	$136	-	$1,288
Flounder, miscellaneous	327,983	355,623	90,827	52,918	13	-	827,364
	$78,860	$88,397	$34,414	$17,808	$8	-	$219,487
Flounder, arrowtooth...	238,048	155	-	-	-	-	238,203
	$24,037	$28	-	-	-	-	$24,065
Flyingfish.....	-	-	-	-	61,931	-	61,931
	-	-	-	-	$24,241	-	$24,241
Grenadier.....	65,428	8,745	5,625	-	-	-	79,798
	$6,514	$875	$564	-	-	-	$7,953
Grouper.....	-	-	302	4,714	10,727	-	15,743
	-	-	$242	$1,882	$3,782	-	$5,906
Hake, Pacific.....	1,830,500	4,705	-	-	433	626	1,836,264
	$140,823	$326	-	-	$33	$123	$141,305
Halfmoon.....	-	-	-	65	5,644	5,399	11,108
	-	-	-	$13	$2,683	$2,967	$5,663
Halibut, California....	386	89,637	30,569	371,663	124,540	48,751	665,546
	$740	$105,302	$39,071	$540,707	$161,735	$59,463	$907,018
Herring, Pacific.....	119,981	9,139,910	125,411	154	33	-	9,385,489
	$69,940	$6,885,770	$26,452	$53	$7	-	$6,982,222
Lingcod.....	1,351,790	1,050,400	349,422	402,752	5,596	1,160	3,161,120
	$332,183	$252,383	$77,586	$93,570	$2,690	$412	$758,824
Mackerel.....	44,574	9,062	404,375	10,979,400	79,001,200	107,837	90,546,448
	$5,285	$1,036	$41,096	$766,472	$5,618,710	$17,352	$6,449,951
Mullet, striped.....	-	-	-	-	-	17,010	17,010
	-	-	-	-	-	$9,115	$9,115
Opaleye.....	-	-	-	115	4,905	315	5,335
	-	-	-	$49	$2,100	$180	$2,329
Queenfish.....	-	-	29	774	5,616	87	6,506
	-	-	$10	$196	$559	$34	$799
Rockfish group,	686,574	2,551,045	2,590,569	2,630,808	475,877	964	8,935,837
boccaccio/chili	$137,958	$512,080	$523,610	$593,191	$169,492	$389	$1,936,720

Rockfish, miscellaneous	9,934,100	2,186,996	1,955,027	3,211,366	1,051,910	1,293,083	19,632,482
	$1,995,090	$533,491	$542,316	$1,200,216	$497,438	$570,029	$5,338,580
Sablefish.....	9,198,020	2,150,480	6,132,390	1,893,650	8,138,550	1,060,510	28,573,600
	$2,390,860	$530,886	$1,350,710	$430,124	$1,707,870	$282,711	$6,693,161
Salmon.....	5,903,142	2,234,562	510,742	101,282	50	-	8,749,778
	$14,512,403	$5,811,079	$1,387,750	$292,134	$132	-	$22,003,498
Sanddab, Pacific.....	677,598	421,042	209,713	8,413	3,928	2,045	1,322,739
	$220,498	$139,109	$70,357	$2,778	$1,830	$1,636	$436,208
Sardine, Pacific.....	-	-	-	-	20,572	-	20,572
	-	-	-	-	$1,440	-	$1,440
Sculpin.....	-	-	-	43	13,094	19,608	32,745
	-	-	-	$7	$9,432	$14,078	$23,517
Seabass, white.....	-	-	679	48,028	514,135	642,824	1,205,666
	-	-	$1,044	$69,025	$546,019	$658,731	$1,274,819
Shark, bonito.....	-	-	-	301	32,974	2,059	35,334
	-	-	-	$107	$18,596	$847	$19,550
Shark, common thresher.	-	4,546	8	175,365	522,108	33,716	735,743
	-	$2,039	$4	$101,083	$307,631	$16,694	$427,451
Shark, Pacific angel...	-	73	-	127,478	43	701	128,295
	-	$18	-	$30,711	$16	$192	$30,937
Shark, soupfin.....	17,264	58,002	13,013	65,633	38,154	84,362	276,428
	$5,717	$15,953	$3,234	$33,221	$20,425	$43,492	$122,042
Shark, miscellaneous...	2,494	129,777	70,711	308,143	432,893	213,203	1,157,227
	$83	$35,536	$13,753	$114,542	$216,611	$94,531	$475,056
Sheephead, California..	-	-	-	3,862	4,275	682	8,819
	-	-	-	$1,217	$1,541	$290	$3,048
Skate.....	101,196	48,625	79,859	79,561	280	-	309,521
	$24,546	$11,802	$13,924	$13,244	$78	-	$63,594
Smelt, top or jack.....	2,148	26,476	3,160	1,138	27,199	-	60,121
	$216	$4,168	$757	$138	$4,115	-	$9,394
Smelt, true.....	187,436	11,583	2,167	53	919	-	202,158
	$21,026	$3,542	$422	$7	$192	-	$25,189
Smelt, whitebait.....	287,759	36,324	19,613	879	110	-	344,685
	$81,916	$10,824	$5,984	$253	$19	-	$98,996
Sole, butter.....	146,807	1,425	-	20	-	-	148,252
	$30,851	$242	-	$7	-	-	$31,100
Sole, Dover.....	18,088,500	2,394,430	2,837,380	73,781	-	-	23,394,091
	$3,807,670	$512,381	$611,335	$15,658	-	-	$4,947,044
Sole, English.....	2,615,480	1,411,500	443,140	534,847	1,871	122	5,006,960
	$772,284	$426,104	$111,613	$157,804	$653	$47	$1,468,505
Sole, petrale.....	1,526,350	735,778	264,065	534,552	155	910	3,061,810
	$675,021	$328,612	$118,880	$242,351	$91	$734	$1,365,689
Sole, rex.....	1,442,850	296,805	100,547	72,782	1,821	-	1,914,805
	$467,266	$97,487	$33,016	$22,134	$659	-	$620,562
Sole, sand.....	452,494	199,202	12,542	6,226	-	-	670,464
	$169,072	$74,372	$4,343	$2,283	-	-	$250,070
Sole, miscellaneous....	484	2,811	2,129	12,321	533	1,761	20,039
	$286	$1,142	$717	$4,446	$223	$752	$7,566
Surfperch.....	72,770	15,295	4,460	47,861	42,893	17,881	201,160
	$38,174	$11,711	$2,210	$35,912	$14,161	$9,263	$111,431
Swordfish.....	-	-	755	59,824	430,546	95,404	586,529
	-	-	$2,643	$187,754	$1,327,770	$293,663	$1,811,830
Thornyhead.....	3,236,300	337,099	500,951	21,590	-	-	4,095,940
	$715,779	$71,339	$109,855	$4,898	-	-	$901,871
Tuna, albacore.....	783,654	881,914	2,854,360	2,070,150	1,004,910	847,110	8,442,098
	$512,564	$592,109	$1,893,530	$1,337,530	$628,647	$571,137	$5,535,517

TABLE 6 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1979

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bigeye.....	-	-	-	-	649,045	918,091	1,567,136
	-	-	-	-	$296,307	$410,685	$706,992
Tuna, bluefin.....	401	-	-	775	9,142,460	4,129,880	13,273,516
	$843	-	-	$536	$4,280,780	$1,777,980	$6,060,139
Tuna, skipjack.....	1,257	558	107	610	50,594,400	44,199,100	94,796,032
	$2,956	$1,339	$218	$257	$19,982,800	$15,586,100	$35,573,670
Tuna, skipjack, black..	-	-	-	-	530,665	116,201	646,866
	-	-	-	-	$53,069	$11,620	$64,689
Tuna, yellowfin.....	-	42	-	1,733	90,855,800	74,988,100	165,845,675
	-	$15	-	$887	$40,825,900	$32,164,200	$72,991,002
Tuna, miscellaneous....	435	-	-	1,308	74,712	5,433	81,888
	$301	-	-	$1,322	$61,172	$3,221	$66,016
Turbot.....	17,501	6,934	1,125	6,833	10,264	-	42,657
	$5,619	$2,427	$305	$1,487	$8,934	-	$18,772
Wahoo.....	-	-	-	-	6,304	4,434	10,738
	-	-	-	-	$3,690	$2,633	$6,323
Yellowtail.....	-	140	159	1,752	143,678	281,883	427,612
	-	$78	$56	$598	$62,033	$107,287	$170,052
Miscellaneous fish.....	26,516	6,926	14,755	62,007	237,724	7,078	355,006
	$1,758	$2,238	$4,219	$21,483	$91,694	$3,066	$124,458
Crustacean:							
Crab, Dungeness.....	12,236,700	670,891	6,845	63,679	390	-	12,978,505
	$8,118,840	$696,444	$8,720	$44,670	$348	-	$8,869,022
Crab, rock.....	4,434	4,594	1,662	617,973	235,700	89,227	953,590
	$4,052	$2,747	$651	$343,695	$143,970	$45,903	$541,018
Crab, spider.....	-	-	-	2,244	12,158	-	14,402
	-	-	-	$953	$4,661	-	$5,614
Lobster, California	-	123	-	109,828	103,204	206,374	419,529
spiny	-	$368	-	$308,508	$309,198	$736,091	$1,354,165
Prawn, ridgeback.....	-	-	-	356,715	-	-	356,715
	-	-	-	$228,161	-	-	$228,161
Prawn, spot.....	2	130	6,461	77,167	18	-	83,778
	$4	$219	$25,192	$172,427	$52	-	$197,894
Shrimp, Pacific ocean..	4,289,380	8,745	27,577	857,001	-	-	5,182,703
	$1,619,820	$4,548	$7,034	$366,802	-	-	$1,998,204
Shrimp, miscellaneous..	-	42,137	-	10,616	4	-	52,757
	-	$2,605	-	$6,308	$20	-	$8,933
Miscellaneous	-	340	-	346	-	-	686
crustacean....	-	$122	-	$346	-	-	$468
Echinoderm:							
Sea cucumber.....	-	-	-	-	69,438	-	69,438
	-	-	-	-	$4,087	-	$4,087
Sea urchin.....	193,538	42,608	24	13,822,600	4,579,170	1,921,010	20,558,950
	$26,241	$8,541	$14	$2,167,220	$690,055	$194,051	$3,086,122
Mollusk:							
Abalone, black.....	-	-	-	196,722	113,217	20,989	330,928
	-	-	-	$173,672	$106,598	$19,851	$300,121
Abalone, green.....	-	-	-	4,249	43,530	13,548	61,327
	-	-	-	$7,969	$79,237	$25,192	$112,398

Abalone, pink.....	-	-	-	84,137	51,466	20,780	156,383
	-	-	-	$133,597	$90,003	$34,805	$258,405
Abalone, red.....	-	47,251	105	364,608	5,796	21,709	439,469
	-	$81,594	$168	$523,183	$6,814	$30,450	$642,209
Abalone, white.....	-	-	-	265	48	189	502
	-	-	-	$468	$116	$422	$1,006
Abalone, miscellaneous.	-	2,517	-	669	631	81	3,898
	-	$4,266	-	$1,046	$1,139	$26	$6,477
Clam.....	225	-	90,500	257,035	28	-	347,788
	$225	-	$7,466	$21,094	$95	-	$28,880
Mussel.....	-	4,198	503	-	-	-	4,701
	-	$4,053	$345	-	-	-	$4,398
Octopus.....	86,440	11,068	1,079	5,845	635	90	105,157
	$38,200	$4,800	$823	$2,259	$755	$84	$46,921
Oyster, eastern	-	81	-	-	-	-	81
	-	$426	-	-	-	-	$426
Oyster, giant Pacific..	590,687	404,412	-	148,628	380	-	1,144,107
	$626,118	$697,427	-	$156,059	$68	-	$1,479,672
Oyster, European flat..	-	435	-	-	-	-	435
	-	$4,845	-	-	-	-	$4,845
Squid, market.....	980	48	28,366,100	329,574	14,709,500	1,440	43,407,642
	$224	$5	$3,436,150	$13,962	$693,964	$344	$4,144,649
Miscellaneous mollusk..	-	544	-	8,569	30,586	533	40,232
	-	$119	-	$3,632	$7,404	$130	$11,285
Total pounds.....	76,793,144	29,075,242	55,442,148	58,764,031	349,845,097	132,322,790	702,242,452
Total value.....	$37,684,624	$18,728,124	$10,788,968	$11,502,078	$81,986,827	$54,008,318	$214,698,939
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	17,481,100	3,179,860	20,660,960
	-	-	-	-	$14,600,600	$2,606,730	$17,207,330
Tuna, bigeye.....	-	-	-	-	427,920	-	427,920
	-	-	-	-	$279,292	-	$279,292
Tuna, bluefin.....	-	-	-	-	6,060	108,017	114,077
	-	-	-	-	$2,682	$50,228	$52,910
Tuna, skipjack.....	-	-	-	-	49,052,200	44,645,000	93,697,200
	-	-	-	-	$21,799,100	$21,038,400	$42,837,500
Tuna, skipjack, black..	-	-	-	-	30,810	44,250	75,060
	-	-	-	-	$3,081	$4,206	$7,287
Tuna, yellowfin.....	-	-	-	-	11,753,300	20,583,000	32,336,300
	-	-	-	-	$6,238,110	$9,690,960	$15,929,070
Total pounds.....	-	-	-	-	78,751,390	68,560,127	147,311,517
Total value.....	-	-	-	-	$42,922,865	$33,390,524	$76,313,389
Grand total pounds...	76,793,144	29,075,242	55,442,148	58,764,031	428,596,487	200,882,917	849,553,969
Grand total value....	$37,684,624	$18,728,124	$10,788,968	$11,502,078	$124,909,692	$87,398,842	$291,012,328

TABLE 7. Value of Landings and Shipments of Commercial Fish Into California by Area, 1980

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	1,005,600	6,679,590	22,817,100	64,175,000	458	94,677,748
	-	$113,061	$174,985	$600,981	$1,657,560	$131	$2,546,718
Barracuda, California..	-	-	-	188	62,185	4,180	66,553
	-	-	-	$11	$45,597	$2,972	$48,580
Bass, giant sea.....	-	-	-	2,513	10,792	25,318	38,623
	-	-	-	$2,704	$8,155	$19,838	$30,697
Bonito, Pacific.....	-	28	230	2,466	12,911,600	1,327,790	14,242,114
	-	$14	$103	$979	$2,463,210	$380,043	$2,844,349
Butterfish, Pacific....	-	798	45,997	8,973	37,624	335	93,727
	-	$399	$56,809	$4,119	$27,109	$240	$88,676
Cabezon.....	102	3,961	2,999	46,383	6,696	5	60,146
	$19	$775	$892	$6,183	$2,348	$2	$10,219
Croaker, white.....	45	61,477	655,631	123,776	217,528	5,684	1,064,141
	$17	$25,992	$165,843	$42,425	$68,380	$2,595	$305,252
Dolphinfish.....	-	-	8	-	2,947	1,552	4,507
	-	-	-	-	$559	$886	$1,445
Flounder, arrowtooth...	122,744	76	-	-	-	-	122,820
	$12,396	$16	-	-	-	-	$12,412
Flounder, miscellaneous	153,292	486,048	50,943	50,873	-	16	741,172
	$38,751	$123,447	$20,881	$18,218	-	$5	$201,302
Flyingfish.....	-	-	-	-	61,333	-	61,333
	-	-	-	-	$24,579	-	$24,579
Grenadier.....	98,528	3,340	-	-	-	-	101,868
	$9,712	$335	-	-	-	-	$10,047
Grouper.....	-	-	-	10,638	-	-	10,638
	-	-	-	$4,302	-	-	$4,302
Hake, Pacific.....	1,527,740	217	-	-	35	-	1,527,992
	$108,794	$77	-	-	$35	-	$108,906
Halfmoon.....	-	-	-	196	1,733	536	2,465
	-	-	-	$85	$1,259	$321	$1,665
Halibut, California....	136	129,402	69,505	349,270	92,434	86,105	726,852
	$66	$134,481	$73,879	$555,780	$140,536	$127,028	$1,031,770
Herring, Pacific.....	151,173	17,273,800	345,849	607	15	-	17,771,444
	$155,500	$16,413,600	$146,607	$515	$11	-	$16,716,233
Lingcod.....	1,063,890	913,875	523,407	303,683	3,698	2,244	2,810,797
	$267,018	$224,918	$99,419	$66,112	$1,812	$752	$660,031
Mackerel.....	13,337	110	748,916	9,863,940	99,484,000	65,992	110,176,295
	$1,421	$11	$79,016	$827,580	$8,812,390	$13,959	$9,734,377
Mullet, striped.....	-	-	-	-	7	46,799	46,806
	-	-	-	-	$4	$25,387	$25,391
Opaleye.....	-	-	-	60	6,074	-	6,134
	-	-	-	$17	$4,048	-	$4,065
Queenfish.....	-	-	-	1,250	385	108	1,743
	-	-	-	$63	$46	$43	$152
Rockfish group,	698,442	3,424,924	3,021,269	2,515,667	455,341	92	10,115,735
boccaccio/chili	$127,726	$616,045	$551,765	$503,568	$148,464	$60	$1,947,628
Rockfish, miscellaneous	16,157,247	1,720,399	3,001,564	2,930,483	1,109,305	1,112,068	26,031,066
	$2,480,568	$451,141	$716,786	$1,078,842	$571,363	$510,110	$5,808,810

Sablefish.....	5,469,350	1,311,020	1,694,070	658,731	1,011,310	140,449	10,284,930
	$905,593	$198,295	$317,838	$119,929	$181,771	$30,368	$1,753,794
Salmon.....	3,148,475	2,062,847	699,787	112,063	19	38	6,023,229
	$6,862,046	$4,632,274	$1,617,235	$274,903	$40	$55	$13,386,553
Sanddab, Pacific.....	662,786	454,756	155,205	4,419	1,662	1,646	1,280,474
	$215,700	$155,128	$43,850	$1,221	$1,813	$1,825	$419,537
Sardine, Pacific.....	-	-	150	-	46,689	-	46,839
	-	-	$45	-	$4,181	-	$4,226
Sculpin.....	-	-	-	61	10,960	48,147	59,168
	-	-	-	$31	$9,231	$41,699	$50,961
Seabass, white.....	-	-	1,315	42,186	386,979	566,932	997,412
	-	-	$1,885	$60,162	$474,942	$663,067	$1,200,056
Shark, bigeye thresher.	-	10,803	-	-	39	-	10,842
	-	$2,040	-	-	$27	-	$2,067
Shark, bonito.....	58	694	-	9,987	126,203	18,394	155,336
	$11	$130	-	$6,816	$81,252	$11,265	$99,474
Shark, common thresher.	-	378	827	270,028	1,213,250	321,524	1,806,007
	-	$198	$367	$178,889	$837,242	$219,114	$1,235,810
Shark, Pacific angel...	-	2,406	-	108,216	7	1,422	112,051
	-	$600	-	$28,739	$35	$463	$29,837
Shark, soupfin.....	19,000	50,304	29,634	46,176	11,260	35,962	192,336
	$7,012	$13,728	$6,882	$24,710	$6,442	$21,154	$79,928
Shark, miscellaneous...	784	88,976	71,526	120,834	839,734	301,779	1,423,633
	$237	$28,671	$16,189	$68,883	$500,676	$174,725	$789,381
Sheephead, California..	-	-	-	4,418	3,319	1,368	9,105
	-	-	-	$1,530	$1,294	$455	$3,279
Skate.....	65,160	20,659	56,192	12,347	858	-	155,216
	$16,192	$4,505	$9,140	$2,809	$207	-	$32,853
Smelt, top or jack.....	367	3,289	7,396	287	21,835	511	33,685
	$38	$1,121	$1,505	$76	$3,308	$234	$6,282
Smelt, true.....	110,210	10,164	1,226	-	743	-	122,343
	$13,027	$2,926	$303	-	$139	-	$16,395
Smelt, whitebait.....	388,548	36,631	12,046	-	869	-	438,094
	$104,066	$11,059	$4,630	-	$159	-	$119,914
Sole, Dover.....	14,929,500	2,131,880	862,072	123,472	-	-	18,046,924
	$2,963,440	$441,391	$177,135	$76,937	-	-	$3,658,903
Sole, English.....	2,049,810	1,643,260	570,625	309,697	132	-	4,573,524
	$604,674	$490,777	$151,299	$92,846	$79	-	$1,339,675
Sole, petrale.....	1,184,340	614,311	265,802	286,009	-	63	2,350,525
	$539,445	$271,860	$122,133	$133,527	-	$76	$1,067,041
Sole, rex.....	1,336,860	346,795	55,592	160,362	-	-	1,899,609
	$444,222	$117,780	$18,775	$53,810	-	-	$634,587
Sole, sand.....	146,571	201,120	3,983	5,107	-	-	356,781
	$55,352	$78,474	$1,365	$1,868	-	-	$137,059
Sole, miscellaneous....	59,088	6,193	15,596	15,782	1,412	1,509	99,580
	$12,327	$2,211	$4,910	$5,509	$881	$529	$26,367
Surfperch.....	39,531	36,962	2,628	33,823	34,012	15,996	162,952
	$20,299	$34,578	$667	$27,030	$12,687	$8,655	$103,916
Swordfish.....	-	248	-	119,216	812,578	265,145	1,197,187
	-	$806	-	$307,757	$2,113,950	$719,314	$3,141,827
Thornyhead.....	2,958,890	279,288	144,023	15,971	216	-	3,398,388
	$677,417	$61,139	$32,280	$3,252	$130	-	$774,218
Tuna, albacore.....	1,510,110	1,388,050	2,678,860	2,751,170	1,534,400	2,096,170	11,958,760
	$1,211,900	$1,107,040	$2,103,680	$2,177,280	$1,259,130	$1,696,020	$9,555,050
Tuna, bigeye.....	-	-	144	670	1,231,920	775,353	2,008,087
	-	-	$108	$670	$723,642	$443,268	$1,167,688

TABLE 7 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1980

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bluefin.....	-	-	80	-	3,464,750	1,906,170	5,371,000
	-	-	$30	-	$2,137,670	$1,131,370	$3,269,070
Tuna, skipjack.....	412	-	40	-	83,570,200	90,835,400	174,406,052
	$227	-	$200	-	$45,777,200	$46,195,000	$91,972,627
Tuna, skipjack, black..	-	-	-	-	13,250	42,135	55,385
	-	-	-	-	$1,325	$4,213	$5,538
Tuna, yellowfin.....	140	50	65	362	91,048,700	99,135,800	190,185,117
	$76	$18	$29	$345	$55,024,600	$57,501,000	$112,526,068
Tuna, miscellanous.....	-	-	616	-	91,610	46,132	138,358
	-	-	$505	-	$90,295	$31,646	$122,446
Turbot.....	12,800	3,651	-	4,787	-	-	21,238
	$4,249	$1,142	-	$990	-	-	$6,381
Wahoo.....	-	-	-	-	3,890	2,859	6,749
	-	-	-	-	$2,652	$2,322	$4,974
Yellowtail.....	-	100	1,627	4,207	207,877	151,365	365,176
	-	$50	$656	$1,914	$95,856	$72,919	$171,395
Miscellaneous fish.....	2,941	4,144	14,888	47,072	192,423	2,095	263,563
	$75	$1,454	$3,570	$16,744	$72,191	$830	$94,864
Crustacean:							
Crab, Dungeness.....	15,247,600	622,815	5,233	57,105	537	1,488	15,934,778
	$9,127,240	$590,015	$7,010	$44,558	$314	$911	$9,770,048
Crab, rock.....	16,176	2,334	88	622,261	314,017	129,081	1,083,957
	$8,728	$2,142	$44	$452,323	$224,194	$81,216	$768,647
Crab, spider.....	-	-	-	2,533	7,336	-	9,869
	-	-	-	$988	$3,271	-	$4,259
Lobster, California	-	-	51	114,970	149,385	151,843	416,249
spiny.....	-	-	$17	$354,584	$509,130	$485,587	$1,349,318
Prawn, ridgeback.....	-	-	-	281,661	-	-	281,661
	-	-	-	$202,865	-	-	$202,865
Prawn, spot.....	-	1,668	7,737	203,307	-	1,114	213,826
	-	-	$27,771	$422,074	-	$3,315	$453,160
Shrimp, Pacific ocean..	2,417,250	2,317	147	1,448,500	-	-	3,868,214
	$1,336,440	$1,308	$82	$846,591	-	-	$2,184,421
Shrimp, miscellanous...	-	-	213	8,088	112	158	8,571
	-	-	$906	$6,188	$124	$474	$7,692
Miscellaneous	-	225	-	-	-	-	225
crustacean....	-	$135	-	-	-	-	$135
Echinoderm:							
Sea cucumber.....	-	-	-	9,215	13,845	-	23,060
	-	-	-	$1,843	$3,530	-	$5,373
Sea urchin.....	196,661	12,380	167	17,014,800	2,859,010	2,084,090	22,167,108
	$24,975	$2,589	$94	$2,902,200	$485,481	$249,752	$3,665,091
Mollusk:							
Abalone, black.....	-	77	-	332,279	171,261	14,931	518,548
	-	-	-	$380,274	$214,316	$17,962	$612,552
Abalone, green.....	-	-	-	2,925	46,980	13,276	63,181
	-	-	-	$6,945	$106,014	$27,676	$140,635
Abalone, pink.....	-	108	133	69,784	46,828	22,053	138,906
	-	$338	$213	$130,603	$100,943	$58,751	$290,848

Abalone, red.....	-	63,336	864	408,979	4,441	39,111	516,731
	-	$123,651	$1,748	$810,659	$8,401	$78,662	$1,023,121
Abalone, white.....	-	-	-	37	220	819	1,076
	-	-	-	$82	$610	$2,841	$3,533
Abalone, miscellaneous.	-	12	-	265	268	11	556
	-	$94	-	$351	$1,252	$32	$1,729
Clam.....	7,866	-	-	40	-	-	7,906
	$2,441	-	-	$24	-	-	$2,465
Mussel.....	-	971	100	391	60	-	1,522
	-	$245	$50	$189	$21	-	$505
Octopus.....	83,818	39,181	4,920	1,265	620	-	129,804
	$37,806	$18,359	$2,672	$533	$1,020	-	$60,390
Oyster, eastern.....	-	111	-	-	-	-	111
	-	$578	-	-	-	-	$578
Oyster, European flat..	-	464	2,017	-	-	-	2,481
	-	$4,805	$11,262	-	-	-	$16,067
Oyster, giant Pacific..	559,665	239,803	25,544	38,184	-	-	863,196
	$593,327	$464,239	$49,613	$40,093	-	-	$1,147,272
Squid, market.....	731	155	15,712,600	2,417,890	15,775,600	10,670	33,917,646
	$203	$64	$2,008,200	$141,066	$883,320	$1,411	$3,034,264
Miscellaneous mollusk..	87	1,475	-	6,252	27,280	253	35,347
	$44	$1,081	-	$1,648	$7,289	$62	$10,124
Total pounds.....	72,612,261	36,720,466	38,251,737	67,336,257	383,939,538	201,862,544	800,722,903
Total value.....	$28,990,817	$26,973,350	$8,833,878	$14,128,342	$125,941,742	$111,064,610	$315,932,739
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	20,465,400	6,635,910	27,101,310
	-	-	-	-	$19,937,400	$6,367,690	$26,305,090
Tuna, blackfin.....	-	-	-	-	315,992	38,074	354,066
	-	-	-	-	$189,594	$23,035	$212,629
Tuna, bigeye.....	-	-	-	-	506,565	-	506,565
	-	-	-	-	$757,677	-	$757,677
Tuna, skipjack.....	-	-	-	-	82,630,800	70,433,000	153,063,800
	-	-	-	-	$52,593,800	$43,276,700	$95,870,500
Tuna, skipjack,black...	-	-	-	-	48,942	51,424	100,366
	-	-	-	-	$11,752	$5,004	$16,756
Tuna, yellowfin.....	-	-	-	-	12,046,400	15,857,800	27,904,200
	-	-	-	-	$8,579,180	$10,146,100	$18,725,280
Tuna, miscellaneous....	-	-	-	-	773,952	-	773,952
	-	-	-	-	$503,069	-	$503,069
Total pounds.....	-	-	-	-	116,788,051	93,016,208	209,804,259
Total value.....	-	-	-	-	$82,572,472	$59,818,529	$142,391,001
Grand total pounds..	72,612,261	36,720,466	38,251,737	67,336,257	500,727,689	294,878,752	1,010,527,162
Grand total value...	$28,990,817	$26,973,350	$8,833,878	$14,128,342	$208,514,214	$170,883,139	$458,323,740

TABLE 8. Value of Landings and Shipments of Commercial Fish Into California by Area, 1981

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	465,138	10,178,610	20,049,132	84,620,828	3,771	115,317,479
	-	$52,516	$268,427	$570,784	$2,345,511	$654	$3,237,892
Barracuda, California..	-	-	-	1,838	56,163	9,593	67,594
	-	-	-	$1,329	$42,533	$6,600	$50,462
Bass, giant sea.....	25	16	-	2,055	12,187	23,620	37,903
	$20	$20	-	$2,309	$10,367	$24,470	$37,186
Bonito, Pacific.....	-	53	959	204,482	13,733,579	2,675,978	16,615,051
	-	$24	$384	$51,618	$3,772,909	$740,081	$4,565,016
Butterfish, Pacific....	-	422	25,853	28,809	20,040	567	75,691
	-	$339	$44,776	$16,180	$13,382	$301	$74,978
Cabezon.....	412	13,498	2,285	37,002	90	173	53,460
	$28	$2,988	$622	$5,062	$41	$116	$8,857
Croaker, white.....	90	57,004	608,903	123,163	184,050	5,524	978,734
	$34	$26,692	$142,936	$49,954	$65,309	$2,789	$287,714
Dolphinfish.....	-	41	56	-	125	8,122	8,344
	-	$41	$20	-	$44	$2,461	$2,566
Flounder, arrowtooth...	105,537	-	-	-	-	13	105,550
	$10,582	-	-	-	-	$3	$10,585
Flounder, miscellaneous	159,790	405,494	35,792	53,305	25	60	654,466
	$43,218	$114,829	$15,181	$18,760	$22	$30	$192,040
Flyingfish.....	-	-	-	-	54,588	-	54,588
	-	-	-	-	$25,853	-	$25,853
Grenadier.....	72,438	-	-	-	-	-	72,438
	$7,130	-	-	-	-	-	$7,130
Grouper.....	-	-	-	3,660	4,644	10	8,314
	-	-	-	$1,031	$1,191	$5	$2,227
Hake, Pacific.....	1,442,424	24,669	85	26	-	72	1,467,276
	$111,527	$2,542	$17	$4	-	$14	$114,104
Halfmoon.....	-	-	-	518	2,379	366	3,263
	-	-	-	$137	$1,489	$220	$1,846
Halibut, California....	1,092	317,965	40,709	680,175	173,316	49,008	1,262,265
	$1,020	$338,462	$48,455	$1,165,341	$286,839	$79,654	$1,919,771
Herring, Pacific.....	102,446	12,763,055	276,789	-	15	-	13,142,305
	$60,722	$4,678,412	$34,298	-	$6	-	$4,773,438
Lingcod.....	1,184,161	885,092	400,678	352,602	9,075	8,244	2,839,852
	$296,823	$219,330	$84,666	$79,968	$3,867	$4,693	$689,347
Mackerel.....	4,318	4,280	3,462,902	17,022,512	96,660,978	55,331	117,210,321
	$516	$878	$318,365	$1,602,265	$9,051,780	$13,134	$10,986,938
Mullet, striped.....	-	-	-	-	-	29,654	29,654
	-	-	-	-	-	$20,030	$20,030
Opah.....	-	-	-	-	696	2,293	2,989
	-	-	-	-	$471	$1,264	$1,735
Opaleye	-	-	-	-	5,272	90	5,362
	-	-	-	-	$3,448	$180	$3,628
Ray, miscellaneous.....	-	-	-	969	-	-	969
	-	-	-	$97	-	-	$97
Rockfish group,	318,922	2,503,637	2,066,832	2,467,968	460,216	13,792	7,831,367
bocaccio/chili	$51,536	$431,724	$361,972	$497,295	$155,413	$5,087	$1,503,027

Rockfish, widow.....	1,589,761	3,331,308	46,875	-	-	-	4,967,944
	$245,444	$509,920	$7,963	-	-	-	$763,327
Rockfish, miscellaneous	14,678,408	4,377,547	2,550,511	2,713,868	1,340,721	1,634,175	27,295,230
	$2,248,869	$892,981	$597,506	$1,154,615	$749,447	$755,604	$6,399,022
Sablefish.....	7,574,632	1,624,615	1,920,714	106,530	3,468,310	32,680	14,727,481
	$1,400,655	$261,557	$299,495	$15,717	$762,554	$13,200	$2,753,178
Salmon.....	3,225,901	2,095,280	608,375	116,598	10	-	6,046,164
	$7,628,475	$5,567,194	$1,621,267	$350,602	$25	-	$15,167,563
Sanddab, Pacific.....	338,387	458,746	132,611	9,660	1,172	1,587	942,163
	$111,760	$156,752	$40,837	$2,796	$1,443	$1,300	$314,888
Sardine, Pacific.....	-	5	-	37	32,512	-	32,554
	-	-	-	$7	$3,012	-	$3,019
Sculpin.....	-	-	106	176	44,563	11,439	56,284
	-	-	$106	$147	$36,596	$9,764	$46,613
Seabass, white.....	-	16	339	23,491	362,902	389,285	776,033
	-	$20	$534	$39,281	$491,656	$538,726	$1,070,217
Shark, bonito.....	168	20	-	9,489	211,704	55,964	277,345
	$69	$1	-	$6,080	$120,673	$35,447	$162,270
Shark, common thresher.	-	919	810	275,981	1,017,627	678,700	1,974,037
	-	$668	$244	$197,843	$772,591	$503,876	$1,475,222
Shark, Pacific angel...	-	2,853	527	260,114	4,507	639	268,640
	-	$717	$184	$86,728	$1,500	$236	$89,365
Shark, soupfin.....	8,659	58,181	4,461	73,369	43,456	76,812	264,938
	$3,898	$23,166	$1,401	$41,466	$26,273	$48,834	$145,038
Shark, miscellaneous...	2,641	96,441	32,166	77,450	561,692	139,206	909,596
	$1,184	$33,784	$8,378	$43,760	$336,544	$88,681	$512,331
Sheephead, California..	-	-	-	3,909	7,014	1,987	12,910
	-	-	-	$1,459	$2,688	$854	$5,001
Skate.....	440,629	53,468	105,547	30,376	1,400	-	631,420
	$48,391	$9,429	$11,359	$4,557	$347	-	$74,083
Smelt, top or jack.....	2,119	4,989	3,494	1,714	4,098	269	16,683
	$170	$1,330	$1,049	$343	$953	$135	$3,980
Smelt, true.....	111,054	12,549	165	-	3,545	402	127,715
	$11,136	$3,817	$41	-	$662	$202	$15,858
Smelt, whitebait.....	261,541	23,187	12,178	-	635	250	297,791
	$69,517	$6,543	$4,218	-	$115	$125	$80,518
Sole, Dover.....	16,199,168	2,945,802	1,138,118	135,195	-	-	20,418,283
	$3,575,274	$646,792	$250,138	$26,855	-	-	$4,499,059
Sole, English.....	1,599,078	1,266,625	449,295	458,252	12	-	3,773,262
	$489,667	$395,524	$121,019	$140,450	$5	-	$1,146,665
Sole, petrale.....	743,872	496,080	247,491	287,589	22	-	1,775,054
	$383,161	$238,174	$118,832	$146,036	$22	-	$886,225
Sole, rex.....	1,223,911	302,377	56,215	145,207	-	44	1,727,754
	$408,801	$104,619	$18,877	$48,776	-	$13	$581,086
Sole, sand.....	116,686	309,242	4,741	9,145	-	29	439,843
	$53,462	$141,265	$1,389	$3,411	-	$15	$199,542
Sole, miscellaneous....	27,037	8,124	9,130	12,757	584	340	57,972
	$4,620	$3,054	$3,503	$4,128	$365	$173	$15,843
Surfperch.....	58,092	33,664	318	43,567	22,518	24,516	182,675
	$39,608	$32,933	$165	$39,643	$10,009	$11,560	$133,918
Swordfish.....	-	375	-	120,241	560,593	461,688	1,142,897
	-	$1,313	-	$389,987	$1,698,514	$1,291,339	$3,381,153
Thornyhead.....	3,323,591	399,755	141,241	11,898	-	-	3,876,485
	$761,580	$84,477	$30,487	$2,690	-	-	$879,234
Tuna, albacore.....	5,003,683	4,963,666	3,464,392	2,185,663	2,086,492	2,880,425	20,584,321
	$4,439,551	$4,320,386	$3,025,181	$1,910,946	$1,891,508	$2,572,401	$18,159,973
Tuna, bigeye.....	-	-	-	163	1,383,028	1,191,545	2,574,736
	-	-	-	$204	$838,387	$701,935	$1,540,526

TABLE 8 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1981

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bigeye.....	-	-	-	163	1,383,028	1,191,545	2,574,736
	-	-	-	$204	$838,387	$701,935	$1,540,526
Tuna, bluefin.....	-	-	-	11,434	1,622,146	279,168	1,912,748
	-	-	-	$6,289	$1,067,821	$202,148	$1,276,258
Tuna, skipjack.....	-	-	-	-	66,669,586	60,909,276	127,578,862
	-	-	-	-	$36,676,602	$30,720,314	$67,396,916
Tuna, yellowfin.....	389	2,648	66,550	5,302	82,965,411	84,710,812	167,751,112
	$233	$1,397	$39,930	$2,934	$49,988,018	$49,214,784	$99,247,296
Tuna, miscellaneous....	-	-	-	15,920	78,711	31,907	126,538
	-	-	-	$8,756	46,399	$21,384	$76,539
Turbot.....	12,113	2,539	6,351	12,773	-	-	33,776
	$4,746	$1,103	$1,114	$2,396	-	-	$9,359
Wahoo.....	-	-	-	-	4,824	6,052	10,876
	-	-	-	-	$3,132	$5,777	$8,909
Yellowtail.....	-	415	1,051	180	150,667	194,984	347,297
	-	$150	$337	$147	$76,366	$118,609	$195,609
Miscellaneous fish.....	156,467	17,233	2,831	68,755	155,583	626	401,495
	$1,753	$5,922	$992	$22,698	$58,987	$247	$90,599
Crustacean:							
Crab, Dungeness.....	10,064,879	344,336	15,614	10,504	-	108	10,435,441
	$8,842,416	$448,635	$14,627	$11,421	-	$66	$9,317,165
Crab, rock.....	2,671	10,278	-	718,411	380,503	263,364	1,375,227
	$1,323	$4,025	-	$543,618	$295,832	$186,306	$1,031,104
Crab, spider.....	-	-	-	5,609	5,305	-	10,914
	-	-	-	$2,296	$2,530	-	$4,826
Lobster, California	-	-	-	117,789	184,980	176,094	478,863
spiny.....	-	-	-	$400,456	$641,328	$595,584	$1,637,368
Prawn, ridgeback.....	-	-	-	192,637	-	-	192,637
	-	-	-	$166,025	-	-	$166,025
Prawn, spot.....	308	2,888	8,859	350,783	6,957	741	370,536
	$924	$8,074	$38,337	$751,500	$15,142	$1,783	$815,760
Shrimp, Pacific ocean..	3,038,483	15,717	551	1,106,082	3,662	-	4,164,495
	$1,518,622	$7,870	$363	$592,979	$7,324	-	$2,127,158
Shrimp, miscellaneous..	-	2,448	1,484	9,564	7,062	62	20,620
	-	$1,274	$7,310	$5,057	$11,783	$154	$25,578
Miscellaneous	-	-	-	-	112	-	112
crustacean....	-	-	-	-	$90	-	$90
Echinoderm:							
Sea urchin.....	209,959	22,713	-	19,221,364	4,658,963	2,320,987	26,433,986
	$44,320	$6,378	-	$3,842,179	$857,960	$286,652	$5,037,489
Miscellaneous	-	-	-	32,884	500	-	33,384
echinoderm....	-	-	-	$5,174	$125	-	$5,299
Mollusk:							
Abalone, black.....	-	606	-	375,249	133,759	11,334	520,948
	-	$953	-	$497,211	$201,385	$14,654	$714,203
Abalone, green.....	225	715	-	2,496	45,553	14,961	63,950
	-	$224	-	$7,377	$129,844	$37,351	$174,796
Abalone, pink.....	-	12	10	45,692	34,151	14,262	94,127
	-	$32	$25	$109,119	$82,981	$31,736	$223,893

Abalone, red.....	-	54,705	736	304,680	3,319	66,875	430,315
	-	$128,548	$1,658	$720,922	$8,136	$149,920	$1,009,184
Abalone, white.....	-	-	-	17	17	133	167
	-	-	-	$55	$60	$435	$550
Abalone, miscellaneous.	-	-	-	106	-	34	140
	-	-	-	$274	-	$249	$523
Clam.....	1,436	-	-	8	-	-	1,444
	$1,031	-	-	$8	-	-	$1,039
Mussel.....	-	647	320	5,545	693	-	7,205
	-	$332	$228	$2,762	$306	-	$3,628
Octopus.....	52,267	25,041	3,540	3,591	97	35	84,571
	$26,006	$12,564	$1,788	$1,598	$73	$53	$42,082
Oyster, European flat..	-	1,441	10,850	-	-	-	12,291
	-	$7,433	$76,554	-	-	-	$83,987
Oyster, giant Pacific..	580,928	419,164	-	49,600	-	-	1,049,692
	$625,040	$877,393	-	$55,800	-	-	$1,558,233
Scallop, weathervane...	512,978	-	-	-	-	-	512,978
	$143,290	-	-	-	-	-	$143,290
Snail, sea.....	18	1,455	-	10,867	19,886	1,646	33,872
	$9	$1,130	-	$2,785	$5,149	$427	$9,500
Squid, market.....	4,959	16	28,269,009	5,268,659	18,277,519	9,556	51,829,718
	$1,041	$7	$3,918,309	$265,436	$960,555	$1,802	$5,147,150
Miscellaneous mollusk...	-	19	475	1,404	-	-	1,898
	-	$29	$475	$3,431	-	-	$3,935
Total pounds.....	74,558,753	41,231,234	56,418,504	76,088,560	382,567,349	159,481,580	790,345,980
Total value.....	$33,719,202	$20,818,686	$11,586,339	$16,751,364	$114,664,292	$89,066,641	$286,606,524
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	18,321,546	20,095,041	38,416,587
	-	-	-	-	$19,450,679	$21,259,932	$40,710,611
Tuna, bigeye.....	-	-	-	-	60,831	197	61,028
	-	-	-	-	$85,279	$118	$85,397
Tuna, blackfin.....	-	-	-	-	174,098	45,228	219,326
	-	-	-	-	$104,459	$26,571	$131,030
Tuna, bluefin.....	-	-	-	-	-	46,104	46,104
	-	-	-	-	-	$35,627	$35,627
Tuna, skipjack.....	-	-	-	-	59,359,613	44,351,941	103,711,554
	-	-	-	-	$37,854,666	$27,916,592	$65,771,258
Tuna, skipjack, black..	-	-	-	-	9,951	-	9,951
	-	-	-	-	$1,669	-	$1,669
Tuna, yellowfin.....	-	-	-	-	16,458,797	18,462,908	34,921,705
	-	-	-	-	$12,429,103	$12,336,206	$24,765,309
Tuna, miscellaneous....	-	-	-	-	4,226,619	-	4,226,619
	-	-	-	-	$3,167,828	-	$3,167,828
Total pounds.....	-	-	-	-	98,611,455	83,001,419	181,612,874
Total value.....	-	-	-	-	$73,093,683	$61,575,046	$134,668,729
Grand total pounds..	**74,558,753**	**41,231,234**	**56,418,504**	**76,088,560**	**481,178,804**	**242,482,999**	**971,958,854**
Grand total value...	**$33,719,202**	**$20,818,686**	**$11,586,339**	**$16,751,364**	**$187,757,975**	**$150,641,687**	**$421,275,253**

TABLE 9. Value of Landings and Shipments of Commercial Fish Into California by Area, 1982

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	870,026	5,752,060	14,361,419	71,940,472	-	92,923,977
	-	$106,302	$136,183	$349,646	$1,540,186	-	$2,132,317
Barracuda, California..	-	-	-	7,565	57,272	8,557	73,394
	-	-	-	$5,304	$48,027	$5,649	$58,980
Bass, giant sea.....	-	-	-	2,031	2,599	2,369	6,999
	-	-	-	$2,362	$2,483	$2,481	$7,326
Bonito, Pacific.....	-	491	10,377	14,582	5,068,203	968,964	6,062,617
	-	$252	$2,901	$5,128	$1,081,704	$190,017	$1,280,002
Butterfish, Pacific....	-	3,047	18,341	5,539	12,044	496	39,467
	-	$2,871	$26,614	$3,583	$11,097	$327	$44,492
Cabezon.....	2,023	37,409	3,889	18,873	5	15	62,214
	$246	$8,377	$1,331	$2,763	$4	$8	$12,729
Croaker, white.....	-	389,673	487,010	148,835	288,788	17,495	1,331,801
	-	$103,706	$122,060	$62,384	$90,842	$10,915	$389,907
Flounder, arrowtooth...	106,391	-	-	23	-	-	106,414
	$11,024	-	-	$16	-	-	$11,040
Flounder, starry.....	-	1,500	206	817	28	-	2,551
	-	$799	$84	$406	$14	-	$1,303
Flounder, miscellaneous	94,699	284,759	22,847	47,283	98	4	449,690
	$28,461	$85,239	$9,182	$16,548	$56	$6	$139,492
Flyingfish.....	-	-	-	-	153,246	-	153,246
	-	-	-	-	$73,437	-	$73,437
Grenadier.....	98,383	-	-	-	-	-	98,383
	$9,872	-	-	-	-	-	$9,872
Grouper.....	-	-	-	3,620	6,414	-	10,034
	-	-	-	$1,167	$1,780	-	$2,947
Hake, Pacific.....	2,234,861	15,886	500	-	6	-	2,251,253
	$179,005	$2,180	$50	-	$3	-	$181,238
Halibut, California....	1,849	423,948	39,042	546,338	163,197	40,001	1,214,375
	$904	$527,665	$53,694	$951,429	$276,138	$71,667	$1,881,497
Herring, Pacific.....	111,425	22,714,495	551,583	246	-	-	23,377,749
	$61,041	$9,972,342	$61,283	$64	-	-	$10,094,730
Lingcod.....	1,294,408	949,516	409,874	360,776	19,233	3,116	3,036,923
	$336,676	$239,641	$85,876	$87,049	$9,941	$1,674	$760,857
Mackerel.....	12,013	9,878	5,144,920	11,668,997	105,854,292	66,323	122,756,423
	$1,046	$1,765	$356,984	$1,106,070	$9,696,376	$13,416	$11,175,657
Mullet, striped.....	-	-	-	-	522	25,696	26,218
	-	-	-	-	$235	$16,534	$16,769
Opah.....	-	-	139	7,010	11,948	50,250	69,347
	-	-	$70	$4,436	$4,712	$21,728	$30,946
Ray, miscellaneous.....	11,160	79	-	-	1,167	10	12,416
	-	-	-	-	$3,607	5	$3,612
Rockfish group,	1,332,883	2,490,547	3,383,834	2,844,273	528,931	24,396	10,604,864
boccaccio/chili	$266,627	$528,178	$667,185	$587,318	$178,875	$9,910	$2,238,093
Rockfish, widow.....	8,942,338	11,904,894	1,650,700	144,453	-	-	22,642,385
	$1,351,487	$1,660,584	$242,265	$26,236	-	-	$3,280,572
Rockfish, miscellaneous	8,357,594	2,745,952	2,556,416	3,635,167	1,518,605	1,724,453	20,538,187
	$1,655,157	$700,552	$662,882	$1,510,449	$885,900	$828,053	$6,242,993

Sablefish.....	10,932,983	2,587,747	2,188,190	88,792	5,085,203	113,338	20,996,253
	$2,063,071	$420,784	$347,907	$13,309	$2,356,027	$40,376	$5,241,474
Salmon.....	3,841,351	2,830,544	1,044,747	241,823	43,121	272	8,001,858
	$9,214,749	$7,257,938	$2,752,511	$689,171	$132,260	$817	$20,047,446
Sanddab Pacific.....	324,942	642,213	79,317	6,192	875	4,075	1,057,614
	$114,880	$229,394	$25,240	$1,603	$600	$3,948	$375,665
Sardine, Pacific.....	-	-	86	-	3,924	-	4,010
	-	-	$43	-	$376	-	$419
Sculpin.....	-	875	-	371	39,630	21,388	62,264
	-	$605	-	$297	$31,109	$17,991	$50,002
Seabass, white.....	-	54	387	27,035	21,642	21,677	70,795
	-	$93	$696	$47,503	$38,224	$40,630	$127,146
Shark, bigeye thresher.	-	2,547	-	247	3,162	30,313	36,269
	-	$676	-	$179	$1,919	$12,332	$15,106
Shark, bonito.....	132	-	428	34,539	265,239	233,501	533,839
	$38	-	$275	$25,285	$165,329	$147,700	$338,627
Shark, common thresher.	247	3,885	21,110	485,089	911,149	975,691	2,397,171
	$185	$2,843	$16,255	$414,405	$752,899	$796,086	$1,982,673
Shark, Pacific angel...	-	675	-	313,596	3,664	1,025	318,960
	-	$252	-	$104,904	$1,198	$326	$106,680
Shark, soupfin.....	11,199	73,652	2,123	67,294	43,072	53,164	250,504
	$6,558	$36,050	$863	$41,215	$32,482	$42,754	$159,922
Shark, miscellaneous...	10,510	90,287	25,138	87,799	143,578	91,712	449,024
	$4,199	$39,105	$9,133	$56,372	$90,704	$52,347	$251,860
Sheephead, California..	-	-	-	7,099	3,529	1,148	11,776
	-	-	-	$2,480	$1,824	$528	$4,832
Skate.....	159,570	47,174	60,682	18,822	1,560	-	287,808
	$27,209	$12,157	$12,744	$3,937	$500	-	$56,547
Smelt, top or jack.....	50	9,272	3,737	404	75,213	94	88,770
	$6	$3,858	$550	$97	$11,009	$38	$15,558
Smelt, true.....	230,908	22,215	9,387	-	30	-	262,540
	$24,792	$7,291	$3,736	-	$5	-	$35,824
Smelt, whitebait.....	365,174	50,618	20,054	-	10	-	435,856
	$94,890	$14,735	$6,639	-	$3	-	$116,267
Sole, Dover.....	16,524,508	3,631,945	1,692,178	240,859	-	-	22,089,490
	$3,874,816	$818,683	$365,499	$50,665	-	-	$5,109,663
Sole, English.....	1,336,679	1,189,147	369,347	325,328	-	970	3,221,471
	$437,594	$391,328	$108,139	$106,020	-	$320	$1,043,401
Sole, petrale.....	660,313	454,723	251,560	373,956	844	325	1,741,721
	$395,086	$257,432	$145,252	$223,851	$568	$192	$1,022,381
Sole, rex.....	905,122	353,036	46,342	161,608	8	295	1,466,411
	$318,783	$126,427	$16,217	$54,766	$5	$106	$516,304
Sole, sand.....	114,328	207,619	619	5,269	-	-	327,835
	$59,017	$106,273	$276	$1,932	-	-	$167,498
Sole, miscellaneous....	34,991	27,722	1,053	4,379	1,565	142	69,852
	$8,981	$10,868	$510	$1,590	$838	$43	$22,830
Surfperch.....	86,464	39,950	3,098	58,698	121,672	57,822	367,704
	$60,690	$44,346	$741	$56,343	$21,582	$27,736	$211,438
Swordfish.....	-	67	8,681	200,776	753,476	728,161	1,691,161
	-	$161	$26,737	$633,530	$2,329,554	$2,130,947	$5,120,929
Thornyhead.....	3,610,193	551,977	275,275	19,252	994	-	4,457,691
	$826,123	$121,720	$61,319	$6,378	$547	-	$1,016,087
Tuna, albacore.....	1,029,628	522,323	440,860	321,829	4,801,507	2,320,791	9,436,938
	$648,210	$374,473	$286,796	$228,084	$3,236,857	$1,613,132	$6,387,552
Tuna, bigeye.....	-	141	-	97	607,785	1,525,625	2,133,648
	-	$99	-	$121	$327,259	$837,274	$1,164,753

TABLE 9 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1982

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bluefin.....	339	-	-	56	5,026,169	274,692	5,301,256
	-	-	-	$11	$2,547,093	$141,482	$2,688,586
Tuna, skipjack.....	-	-	-	-	55,235,745	37,146,094	92,381,839
	-	-	-	-	$23,821,594	$16,326,194	$40,147,788
Tuna, yellowfin.....	143	74	813	1,520	70,725,993	65,447,756	136,176,299
	$67	$93	$750	$1,309	$37,715,110	$36,342,317	$74,059,646
Tuna, miscellaneous....	90	10	116	590	44,122	66,980	111,908
	$90	$25	$116	$415	$46,255	$52,026	$98,927
Turbot.....	35,027	3,140	149	9,036	6	-	47,358
	$5,139	$943	$73	$2,262	$2	-	$8,419
Wahoo.....	-	-	-	-	1,223	8,920	10,143
	-	-	-	-	$595	$7,461	$8,056
Yellowtail.....	-	12,430	12,526	432	35,498	14,223	75,109
	-	$4,404	$4,049	$177	$10,842	$10,238	$29,710
Miscellaneous fish.....	506,670	14,961	8,118	57,207	151,341	12,545	750,842
	$48,938	$5,484	$2,421	$20,423	$66,092	$6,511	$149,869
Crustacean:							
Crab, Dungeness.....	6,463,716	500,361	2,642	6,304	656	-	6,973,679
	$6,993,571	$663,331	$4,070	$5,442	$409	-	$7,666,823
Crab, rock.....	8,058	15,733	16	837,593	219,412	197,060	1,277,872
	$8,574	$8,395	$8	$664,986	$177,447	$156,147	$1,015,557
Crab, spider.....	-	-	-	9,251	7,244	-	16,495
	-	-	-	$3,869	$4,077	-	$7,946
Lobster, California spiny.....	-	-	-	130,177	193,512	201,021	524,710
	-	-	-	$477,822	$685,769	$725,610	$1,889,201
Prawn, ridgeback.....	-	-	-	129,402	-	-	129,402
	-	-	-	$157,931	-	-	$157,931
Prawn, spot.....	60	1,439	19,645	277,975	3,124	25	302,268
	$390	$2,907	$94,012	$798,767	$6,873	$75	$903,024
Shrimp, Pacific ocean..	4,021,630	2,408	393	519,361	14	-	4,543,806
	$2,057,801	$3,215	$160	$296,463	$28	-	$2,357,667
Shrimp, miscellaneous..	-	73	497	382	83	-	1,035
	-	$73	$2,396	-	$1,188	-	$3,657
Miscellaneous crustacean....	-	-	-	250	816	-	1,066
	-	-	-	$500	$1,055	-	$1,555
Echinoderm:							
Sea cucumber	-	-	-	135,097	4,390	-	139,487
	-	-	-	$23,617	$1,367	-	$24,984
Sea urchin	56,577	12,042	1,236	13,839,259	3,256,603	2,275,434	19,441,151
	$9,389	$3,384	$323	$2,524,639	$574,821	$420,297	$3,532,853
Miscellaneous echinoderm....	-	-	30	70,734	32,577	100	103,441
	-	-	$30	$10,946	$4,079	$50	$15,105
Mollusk:							
Abalone, black.....	-	125	-	454,166	167,324	11,692	633,307
	-	$175	-	$576,328	$233,396	$16,110	$826,009
Abalone, green.....	409	12	-	2,677	70,126	15,421	88,645
	-	-	-	$7,595	$231,624	$46,059	$285,278
Abalone, pink.....	-	-	-	43,136	24,171	18,871	86,178
	-	-	-	$107,555	$69,972	$48,405	$225,932

Abalone, red.....	-	66,964	-	320,189	4,862	39,270	431,285
	-	$151,789	-	$724,440	$10,053	$88,124	$974,406
Abalone, white.....	-	-	-	62	180	66	908
	-	-	-	$186	$630	$1,832	$2,648
Abalone, miscellaneous.	-	210	-	57	-	-	267
	-	$706	-	$132	-	-	$838
Clam.....	546	-	49	150	142	-	887
	$441	-	$44	$105	$173	-	$763
Mussel.....	-	1,913	885	1,578	2,994	17	7,387
	-	$1,194	$508	$854	$1,519	$9	$4,084
Octopus.....	38,152	32,098	10,523	7,215	805	124	88,917
	$20,145	$17,099	$7,539	$3,199	$1,349	$115	$49,446
Oyster, eastern.....	-	53	-	-	-	-	53
	-	$394	-	-	-	-	$394
Oyster, European flat..	-	3,805	-	-	-	-	3,805
	-	$19,750	-	-	-	-	$19,750
Oyster, giant Pacific..	492,209	495,745	-	118,250	-	-	1,106,204
	$521,735	$1,017,935	-	$131,175	-	-	$1,670,845
Scallop, weathervane...	5,530	-	-	-	-	-	5,530
	$2,007	-	-	-	-	-	$2,007
Snail, sea.....	-	852	1,517	7,131	19,521	1,023	30,044
	-	$463	$1,517	$1,794	$5,457	$355	$9,586
Squid, market.....	4,307	5,149	23,384,951	3,094,712	9,463,966	180	35,953,265
	$978	$562	$2,882,989	$149,362	$580,105	$22	$3,614,018
Miscellaneous mollusk..	-	232	55	85	8,144	2	8,518
	-	$137	$125	$85	$40,252	$7	$40,606
Total pounds.....	74,412,782	57,352,337	50,020,298	56,983,034	343,260,285	114,845,790	696,874,526
Total value.....	$31,750,688	$26,120,502	$9,617,852	$14,178,784	$90,278,321	$61,327,459	$233,273,606
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	20,883,045	2,445,842	23,328,887
	-	-	-	-	$22,955,327	$2,449,904	$25,405,231
Tuna, bigeye.....	-	-	-	-	45,122	42,208	87,330
	-	-	-	-	$34,246	$28,279	$62,525
Tuna, blackfin.....	-	-	-	-	169,824	69,238	239,062
	-	-	-	-	$101,760	$39,812	$141,572
Tuna, bluefin.....	-	-	-	-	213,408	-	213,408
	-	-	-	-	$122,711	-	$122,711
Tuna, skipjack.....	-	-	-	-	88,572,578	15,419,444	103,992,022
	-	-	-	-	$41,020,779	$6,662,606	$47,683,385
Tuna, skipjack,black...	-	-	-	-	26,587	-	26,587
	-	-	-	-	$2,620	-	$2,620
Tuna, yellowfin.....	-	-	-	-	17,322,443	3,574,346	20,896,789
	-	-	-	-	$10,090,410	$1,992,669	$12,083,079
Tuna, miscellaneous....	-	-	-	-	1,106,138	-	1,106,138
	-	-	-	-	$381,404	-	$381,404
Total pounds.....	-	-	-	-	128,339,145	21,551,078	149,890,223
Total value.....	-	-	-	-	$74,709,257	$11,173,270	$85,359,551
Grand total pounds..	**74,412,782**	**57,352,337**	**50,020,298**	**56,983,034**	**471,599,430**	**136,396,868**	**846,764,749**
Grand total value...	**$31,750,688**	**$26,120,502**	**$9,617,852**	**$14,178,784**	**$164,987,578**	**$72,500,729**	**$319,156,161**

TABLE 10. Value of Landings and Shipments of Commercial Fish Into California by Area, 1983

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	732,501	707,134	6,061,296	2,254,482	3,787	9,759,200
	-	$75,416	$44,279	$161,147	$130,390	$687	$411,919
Barracuda, California..	-	70	141	1,478	16,669	2,898	21,256
	-	$57	$71	$1,321	$14,168	$1,841	$17,458
Bass, giant sea.....	-	2	18	1,536	1,346	838	3,740
	-	-	$14	$2,015	$1,522	$898	$4,449
Bonito, Pacific.....	873	75,160	90,039	382,086	7,540,844	65,179	8,154,181
	$306	$25,492	$21,208	$72,243	$1,324,572	$14,756	$1,458,577
Butterfish, Pacific....	-	4,439	1,278	43,082	6,173	50	55,022
	-	$4,358	$3,179	$28,664	$5,436	$30	$41,667
Cabezon.....	1,440	15,465	472	2,965	162	11	20,515
	$136	$3,068	$133	$505	$71	$8	$3,921
Croaker, white.....	50	316,723	79,545	162,754	217,147	6,934	783,153
	$20	$72,844	$19,267	$53,084	$67,366	$3,474	$216,055
Flounder, arrowtooth...	52,299	2,106	-	-	-	-	54,405
	$5,330	$745	-	-	-	-	$6,075
Flounder, starry.....	35,622	62,850	1,578	4,016	-	-	104,066
	$11,040	$19,411	$473	$1,474	-	-	$32,398
Flounder, miscellaneous	44,821	314,450	18,696	33,399	485	2,399	414,250
	$13,458	$94,592	$6,662	$12,117	$459	$743	$128,031
Flyingfish.....	-	-	-	-	38,893	-	38,893
	-	-	-	-	$19,448	-	$19,448
Grenadier.....	168,280	-	1,090	-	-	-	169,370
	$19,302	-	$109	-	-	-	$19,411
Grouper.....	-	-	-	128	41,987	198	42,313
	-	-	-	$53	$12,054	$190	$12,297
Hake, Pacific.....	2,153,347	6,603	-	17	934	3	2,160,904
	$161,309	$551	-	$2	$70	$5	$161,937
Halibut, California....	385	551,806	22,510	372,584	131,331	51,965	1,130,581
	$570	$735,043	$35,741	$667,350	$235,550	$93,564	$1,767,818
Herring, Pacific.....	69,461	17,335,131	285,986	6	17	-	17,690,601
	$45,070	$12,457,247	$144,365	$2	$4	-	$12,646,688
Lingcod.....	960,842	603,141	304,283	101,994	4,229	2,301	1,976,790
	$249,223	$155,604	$70,063	$26,374	$1,994	$1,039	$504,297
Mackerel.....	6,453	32,281	13,021,204	10,285,981	89,709,119	41,385	113,096,423
	$805	$3,320	$793,684	$827,284	$8,126,009	$10,079	$9,761,181
Mullet, striped.....	-	-	-	-	-	43,134	43,134
	-	-	-	-	-	$26,148	$26,148
Opah.....	-	2,509	24,881	41,371	33,081	78,072	179,914
	-	$624	$6,806	$13,060	$9,219	$22,580	$52,289
Ray, miscellaneous.....	8,970	5,503	1	56	1,024	-	15,554
	-	$5,421	$1	$14	$9,197	-	$14,633
Rockfish group,	458,706	4,936,235	1,840,860	1,836,530	728,837	40,484	9,841,652
bocaccio/chili	$104,104	$1,104,218	$392,870	$448,791	$211,660	$16,577	$2,278,220
Rockfish group, red....	1,267,489	398,703	155,079	339,674	18,618	24,149	2,203,712
	$303,869	$104,585	$75,280	$226,930	$13,977	$14,479	$739,120

Rockfish group,	215,373	329,465	362,775	134,896	34,319	327	1,077,155
rosefish.....	$41,087	$62,488	$69,398	$27,112	$8,087	$164	$208,336
Rockfish, widow.....	5,316,431	2,216,288	59,536	42,364	-	-	7,634,619
	$1,031,424	$441,479	$10,704	$9,511	-	-	$1,493,118
Rockfish, miscellaneous	8,326,320	2,859,390	4,077,007	2,233,505	668,742	1,615,620	19,780,584
	$1,741,315	$783,560	$1,041,723	$924,336	$404,063	$802,956	$5,697,953
Sablefish.....	6,151,855	1,465,051	1,389,950	174,268	5,429,596	2,672	14,613,392
	$1,159,637	$183,547	$231,234	$28,060	$1,874,826	$812	$3,478,116
Salmon.....	1,128,486	551,599	580,432	153,930	436	-	2,414,883
	$1,968,832	$1,122,592	$1,244,302	$379,578	$1,132	-	$4,716,436
Sanddab, Pacific.....	234,624	286,364	41,666	1,174	436	1,575	565,839
	$84,482	$103,131	$13,606	$335	$284	$1,587	$203,425
Sardine, Pacific.....	-	-	35	4	1,345	-	1,384
	-	-	$13	$1	$161	-	$175
Sculpin.....	-	-	-	820	24,489	6,410	31,719
	-	-	-	$366	$16,920	$4,852	$22,138
Seabass, white.....	40	1,272	1,122	10,898	39,819	24,813	77,964
	$10	$2,369	$1,260	$19,406	$72,853	$48,332	$144,230
Shark, bigeye thresher.	-	15,540	39,061	15,223	28,188	26,547	124,559
	-	$7,368	$24,930	$10,516	$30,329	$17,759	$90,902
Shark, bonito.....	59	4,304	21,576	79,344	131,088	93,889	330,260
	$23	$2,541	$14,526	$56,277	$94,429	$62,376	$230,172
Shark, commom thresher.	783	15,440	65,937	687,477	365,350	591,659	1,726,646
	$813	$13,937	$58,898	$597,544	$301,397	$497,024	$1,469,613
Shark, Pacific angel...	-	1,147	248	337,782	17,502	3,644	360,323
	-	$620	$182	$96,803	$6,443	$1,437	$105,485
Shark, soupfin.....	13,778	54,524	9,379	44,034	14,837	41,218	177,770
	$10,240	$31,424	$4,772	$27,755	$12,087	$31,712	$117,990
Shark, miscellaneous...	6,724	134,574	28,076	104,390	74,139	85,507	433,410
	$4,935	$56,416	$15,647	$36,948	$45,522	$111,648	$271,116
Sheephead, California..	-	-	145	3,943	6,755	1,791	12,634
	-	-	$29	$1,620	$3,124	$754	$5,527
Skate.....	69,963	48,911	54,997	10,788	948	83	185,690
	$17,472	$12,405	$11,559	$2,564	$320	$41	$44,361
Smelt, top or jack.....	1,676	3,509	1,878	2,109	78,617	75	87,864
	$134	$1,509	$666	$354	$12,817	$30	$15,510
Smelt, true.....	83,296	20,473	877	37	4,005	-	108,688
	$19,748	$6,896	$363	$5	$849	-	$27,861
Smelt, whitebait.....	161,916	16,323	18,799	5,000	-	-	202,038
	$35,940	$4,589	$7,863	$3,000	-	-	$51,392
Sole, Dover.....	12,002,684	3,655,042	2,442,797	784,448	28,919	-	18,913,890
	$2,669,303	$827,702	$492,492	$162,976	$7,231	-	$4,159,704
Sole, English.....	1,545,173	691,833	244,070	125,520	712	328	2,607,636
	$509,781	$229,322	$68,346	$42,339	$258	$112	$850,158
Sole, petrale.....	573,515	360,993	188,184	156,982	7,499	114	1,287,287
	$388,064	$237,417	$120,243	$110,736	$4,862	$80	$861,402
Sole, rex.....	791,435	289,739	63,040	259,444	7,104	-	1,410,762
	$284,740	$104,192	$22,290	$89,068	$2,276	-	$502,566
Sole, sand.....	78,244	155,258	3,437	1,448	-	472	238,859
	$46,704	$89,452	$1,028	$655	-	$283	$138,122
Sole, miscellaneous....	10,274	18,177	1,048	3,017	852	562	33,930
	$2,763	$7,123	$421	$1,315	$531	$437	$12,590
Surfperch.....	62,518	60,547	5,001	38,272	23,959	21,259	211,556
	$42,839	$66,166	$3,248	$38,724	$10,109	$10,296	$171,382
Swordfish.....	-	55,646	484,079	443,263	915,202	777,028	2,675,218
	-	$118,707	$1,083,850	$1,161,787	$2,405,698	$2,037,436	$6,807,478

TABLE 10 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1983

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Thornyhead.....	2,595,973	457,570	467,594	203,915	7,061	-	3,732,113
	$600,144	$104,797	$105,496	$56,164	$1,712	-	$868,313
Tuna, albacore.....	1,415,813	3,138,502	4,086,587	2,107,515	5,332,853	464,140	16,545,410
	$769,138	$1,762,907	$2,275,777	$1,197,899	$3,310,601	$322,703	$9,639,025
Tuna, bigeye.....	-	-	767	3,943	5,842	36,578	47,130
	-	-	$651	$3,275	$4,326	$37,359	$45,611
Tuna, bluefin.....	5	38	33	1,229	1,616,854	64,137	1,682,296
	$6	$35	$28	$1,281	$1,029,891	$44,530	$1,075,771
Tuna, skipjack.....	-	3,193	6,806	10,703	60,627,133	38,548,960	99,196,795
	-	$895	$1,860	$4,133	$22,936,143	$13.792,052	$36,735,083
Tuna, yellowfin.....	169	937	8,302	16,668	81,923,911	40,935,379	122,885,366
	$153	$458	$4,958	$14,754	$40,431,346	$18,757,648	$59,209,317
Tuna, miscellaneous....	-	11,331	1,415	13,305	145,685	53,041	224,777
	-	$6,113	$1,042	$11,185	$61,456	$36,746	$116,542
Turbot.....	36,592	5,909	312	3,278	712	-	46,803
	$7,353	$2,177	$71	$966	$210	-	$10,777
Wahoo.....	-	-	-	-	12,998	5,323	18,321
	-	-	-	-	$7,532	$2,775	$10,307
Yellowtail.....	647	190	10,427	2,302	34,464	123,926	171,956
	$344	$66	$3,083	$2,213	$24,062	$60,743	$90,511
Miscellaneous fish.....	184,356	28,602	36,785	68,596	222,638	6,989	547,966
	$2,078	$8,179	$10,726	$26,373	$57,749	$3,736	$108,841
Crustacean:							
Crab, Dungeness.....	4,651,079	625,847	5,274	19,559	9	60	5,301,828
	$7,071,104	$1,039,104	$9,467	$14,029	$11	$91	$8,133,806
Crab, rock.....	4,544	28,989	883	835,901	284,583	242,209	1,397,109
	$3,236	$17,864	$651	$702,195	$235,737	$190,338	$1,150,021
Crab, spider.....	-	-	-	33,149	13,883	76	47,108
	-	-	-	$13,974	$5,898	$43	$19,915
Lobster, California spiny.....	-	-	-	138,213	182,046	204,828	525,087
	-	-	-	$531,096	$703,264	$758,372	$1,992,732
Prawn, ridgeback.....	-	-	-	153,779	-	-	153,779
	-	-	-	$142,573	-	-	$142,573
Prawn, spot.....	14	3,199	7,613	98,270	-	-	109,096
	$74	$8,821	$37,288	$372,197	-	-	$418,380
Shrimp, Pacific ocean..	212,452	-	33	920,257	-	-	1,132,742
	$147,337	-	$26	$735,306	-	-	$882,669
Shrimp, miscellaneous..	-	1,856	4,766	10,644	49	-	17,315
	-	$2,166	$23,887	$54,885	$701	-	$81,639
Miscellaneous crustacean....	-	10	-	1,012	738	103	1,863
	-	-	-	$1,364	$348	$1,002	$2,714
Echinoderm:							
Sea cucumber.....	-	-	-	149,071	14,424	-	163,495
	-	-	-	$22,096	$4,008	-	$26,104
Sea urchin.....	13,247	41,744	2,195	12,601,747	3,179,309	1,918,230	17,756,472
	$150	$11,079	$648	$2,652,293	$689,928	$477,849	$3,831,947
Miscellaneous echinoderm....	-	-	1	-	34,563	-	34,5 64
	-	-	$1	-	$5,714	-	$5,715

Mollusk:*							
Abalone, black.....	-	19	-	357,341	117,252	9,698	484,310
	-	$150	-	$477,946	$167,985	$12,374	$658,455
Abalone, green.....	-	-	-	2,346	45,080	9,435	56,861
	-	-	-	$6,987	$155,203	$25,618	$187,808
Abalone, pink.....	-	-	-	29,926	23,186	14,040	67,152
	-	-	-	$79,928	$71,661	$44,598	$196,187
Abalone, red.....	-	39,448	-	165,211	5,828	20,723	231,210
	-	$220,831	-	$403,717	$16,562	$56,056	$697,166
Abalone, white.....	-	-	-	111	215	156	482
	-	-	-	$449	$465	$554	$1,468
Abalone, miscellaeous..	-	13	-	68	-	21	102
	-	$20	-	$187	-	$34	$241
Clam.....	-	1,273	22	1,709	53	-	3,057
	-	$471	$10	$985	$53	-	$1,519
Mussel.....	-	753	20	810	475	85	2,143
	-	$515	$12	$544	$238	$34	$1,343
Octopus.....	14,226	12,269	3,790	3,820	638	70	34,813
	$8,016	$6,585	$2,337	$1,908	$1,989	$59	$20,894
Snail, sea.....	-	2,263	175	8,203	25,536	537	36,714
	-	$1,712	$193	$4,161	$12,652	$210	$18,928
Squid, market.....	62	1,018,092	1,102,328	14,674	1,882,529	2,668	4,020,353
	$33	$207,408	$224,364	$4,182	$325,954	$669	$762,610
Miscellaneous mollusk..	-	664	1	50	2,654	70	3,439
	-	$664	$4	$180	$12,584	$252	$13,684
Total pounds.....	51,133,384	44,129,798	32,486,076	43,502,658	264,393,437	86,320,862	521,966,215
Total value.....	$19,583,994	$22,782,565	$8,860,378	$13,913,546	$85,775,757	$38,463,671	$189,379,911
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	13,832,979	633,192	14,466,171
	-	-	-	-	$11,056,620	$474,894	$11,531,514
Tuna, bigeye.....	-	-	-	-	320	-	320
	-	-	-	-	$378	-	$378
Tuna, skipjack.....	-	-	-	-	67,277,762	30,558,118	97,835,880
	-	-	-	-	$24,589,402	$10,883,574	$35,472,976
Tuna, yellowfin.....	-	-	-	-	12,211,125	3,122,082	15,333,207
	-	-	-	-	$5,947,581	$1,281,128	$7,228,709
Total pounds.....	-	-	-	-	93,322,186	34,313,392	127,635,578
Total value.....	-	-	-	-	$41,593,981	$12,639,596	$54,233,577
Grand total pounds..	**51,133,384**	**44,129,798**	**32,486,076**	**43,502,658**	**357,715,623**	**120,634,254**	**649,601,793**
Grand total value...	**$19,583,994**	**$22,782,565**	**$8,860,378**	**$13,913,546**	**$127,369,738**	**$51,103,267**	**$243,613,488**

* Beginning 1983, Oyster production is no longer reported in this data series.

TABLE 11. Value of Landings and Shipments of Commercial Fish Into California by Area, 1984

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	1,000	1,185,437	4,177,162	422,279	582,742	-	6,368,620
	$600	$137,437	$199,928	$58,387	$88,057	-	$484,409
Barracuda, California..	-	5	-	5,798	18,256	4,601	28,660
	-	$2	-	$4,943	$17,734	$3,075	$25,754
Bass, giant sea.....	-	35	73	5,144	3,783	2,083	11,118
	-	$37	$169	$7,133	$4,013	$3,697	$15,049
Bonito, Pacific.....	-	1,066	5,716	27,470	6,130,888	14,550	6,179,690
	-	$246	$1,429	$6,862	$820,840	$6,103	$835,480
Butterfish, Pacific....	-	950	2,362	4,364	6,381	732	14,789
	-	$814	$4,684	$2,975	$5,399	$653	$14,525
Cabezon.....	530	12,379	62	1,719	35	16	14,741
	$100	$2,784	$21	$319	$15	$6	$3,245
Croaker, white.....	-	427,796	111,389	138,173	809,129	5,000	1,491,487
	-	$127,914	$35,422	$52,871	$87,778	$3,341	$307,326
Croaker, miscellaneous.	-	-	-	-	54,016	-	54,016
	-	-	-	-	$30,887	-	$30,887
Flounder, arrowtooth...	67,524	3,885	-	-	-	-	71,409
	$6,779	$1,149	-	-	-	-	$7,928
Flounder, starry.....	99,247	337,239	14,583	17,682	2	-	468,753
	$30,943	$104,373	$4,503	$6,705	$1	-	$146,525
Flounder, miscellaneous	381	32,004	35,994	36,684	93	3	105,159
	$27	$11,129	$14,445	$14,135	$74	$1	$39,811
Flyingfish.....	-	-	-	-	19,950	-	19,950
	-	-	-	-	$8,978	-	$8,978
Grenadier.....	68,736	204	13,713	-	-	-	82,653
	$6,881	$20	$1,091	-	-	-	$7,992
Hake, Pacific.....	5,134,321	5,423	8,145	-	-	23	5,147,912
	$338,618	$465	$845	-	-	$1	$339,929
Halibut, California....	207	307,389	37,574	487,802	174,286	100,074	1,107,332
	$286	$458,087	$70,046	$898,684	$331,570	$185,148	$1,943,821
Herring, Pacific.....	147,274	8,125,448	209,317	35	-	-	8,482,074
	$58,456	$1,847,595	$20,239	$9	-	-	$1,926,299
Lingcod.....	682,865	1,245,192	115,111	46,034	5,180	1,047	2,095,429
	$183,248	$317,461	$30,963	$13,751	$2,432	$880	$548,735
Louvar.....	-	1,023	6,220	7,073	1,852	1,841	18,009
	-	$816	$5,299	$5,838	$722	$2,261	$14,936
Mackerel.....	219	35,978	27,843,596	3,121,516	86,293,331	60,409	117,355,049
	$45	$5,667	$1,439,760	$254,354	$7,900,034	$13,388	$9,613,248
Mullet, striped.....	-	-	-	-	-	24,965	24,965
	-	-	-	-	-	$17,499	$17,499
Opah.....	-	13,154	31,629	116,634	177,697	177,012	516,126
	-	$3,127	$7,533	$31,196	$38,918	$51,170	$131,944
Ray, miscellaneous.....	-	71	-	270	1,895	-	2,236
	-	-	-	$70	$20,154	-	$20,224
Rockfish group,	116,731	3,587,644	1,363,672	1,341,076	603,801	183,712	7,196,636
bocaccio/chili	$26,018	$863,818	$329,571	$366,341	$228,019	$85,924	$1,899,691
Rockfish group, red....	2,176,509	694,426	180,102	451,054	254,097	78,709	3,834,897
	$521,169	$202,565	$92,708	$318,671	$207,475	$47,258	$1,389,846

Rockfish, widow.....	4,315,005	1,444,812	95,704	65,598	1,877	5,429	5,928,425
	$925,258	$350,756	$18,880	$14,703	$676	$2,576	$1,312,849
Rockfish, miscellaneous	4,885,320	7,404,501	3,907,440	1,408,294	478,414	1,256,231	19,340,200
	$1,164,129	$1,883,086	$1,029,481	$574,684	$357,315	$637,311	$5,646,006
Sablefish.....	5,517,736	1,536,983	1,218,786	302,912	2,054,902	2,002	10,633,321
	$969,428	$252,362	$210,347	$48,574	$717,699	$759	$2,199,169
Salmon.....	803,778	1,684,711	445,629	47,903	-	635	2,982,656
	$2,054,772	$4,554,267	$1,257,268	$157,710	-	1,786	$8,025,803
Sanddab, Pacific.....	282,209	203,571	44,436	5,624	361	16,867	553,068
	$101,608	$72,804	$14,993	$1,962	$313	$17,757	$209,437
Sardine, Pacific.....	-	-	719	-	1,112	767	2,598
	-	-	$270	-	$341	$263	$874
Sculpin.....	-	10	-	362	22,566	2,046	24,984
	-	$1	-	$185	$20,450	$1,754	$22,390
Seabass, white.....	-	607	235	55,117	42,729	19,411	118,099
	-	$1,249	$458	$104,375	$83,204	$38,076	$227,362
Shark, bigeye thresher.	-	4,063	6,471	6,729	31,940	25,203	74,406
	-	$2,179	$3,934	$4,280	$19,815	$17,047	$47,255
Shark, bonito.....	-	5,350	9,551	57,725	83,773	86,438	242,837
	-	$2,746	$6,896	$46,530	$66,866	$66,394	$189,432
Shark, common thresher.	32	70,884	77,055	567,461	508,149	435,523	1,659,104
	$30	$76,139	$69,328	$546,689	$499,117	$449,221	$1,640,524
Shark, Pacific angel...	-	4,314	568	610,281	10,746	7,364	633,273
	-	$1,843	$213	$223,343	$4,215	$2,997	$232,611
Shark, soupfin.....	5,445	32,411	9,397	66,193	52,839	112,256	278,541
	$3,572	$19,951	$4,626	$40,890	$46,754	$96,570	$212,363
Shark, miscellaneous...	3,004	117,150	40,623	53,940	40,006	59,528	314,251
	$2,244	$52,786	$28,858	$36,032	$33,632	$82,843	$236,395
Sheephead, California..	-	647	-	9,955	11,177	3,319	25,098
	-	$3,882	-	$3,575	$12,318	$4,867	$24,642
Skate.....	20,318	53,639	30,090	10,040	1,346	860	116,293
	$5,183	$13,573	$6,448	$2,425	$623	$409	$28,661
Smelt, top or jack.....	3,473	1,869	1,359	648	42,532	-	49,881
	$348	$548	$571	$260	$6,009	-	$7,736
Smelt, true.....	147,498	4,572	703	-	42,514	-	195,287
	$22,476	$1,217	$183	-	$5,154	-	$29,030
Smelt, whitebait.....	271,657	14,213	1,066	340	-	-	287,276
	$83,367	$5,065	$449	$170	-	-	$89,051
Sole, Dover.....	12,533,250	3,740,375	2,454,273	2,795,993	39,561	-	21,563,452
	$3,036,635	$845,815	$528,873	$599,342	$9,890	-	$5,020,555
Sole, English.....	1,148,189	659,801	219,247	70,357	1,370	-	2,098,964
	$379,423	$221,426	$62,697	$23,494	$437	-	$687,477
Sole, petrale.....	676,383	374,528	140,204	106,636	2,663	1,498	1,301,912
	$465,051	$256,127	$91,878	$80,137	$1,969	$1,348	$896,510
Sole, rex.....	773,094	318,269	61,567	98,206	1,568	272	1,252,976
	$278,232	$114,380	$21,703	$33,342	$503	$95	$448,255
Sole, sand.....	23,723	110,264	7,790	1,030	18	-	142,825
	$13,201	$67,252	$2,712	$425	$18	-	$83,608
Sole, miscellaneous....	10,242	117,928	27,643	7,952	706	514	164,985
	$2,314	$43,408	$7,981	$3,198	$424	$356	$57,681
Surfperch.....	62,602	46,008	677	19,569	4,724	48,540	182,120
	$43,595	$56,511	$260	$19,751	$3,508	$22,848	$146,473
Swordfish.....	-	375,172	255,171	766,601	1,922,287	1,074,047	4,393,278
	-	$841,208	$575,344	$2,011,118	$5,005,115	$3,126,159	$11,558,944

TABLE 11 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1984

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Thornyhead.....	3,091,371	531,869	369,446	664,888	12,696	-	4,670,270
	$773,212	$128,673	$86,825	$159,112	$3,175	-	$1,150,997
Tuna, albacore.....	999,230	1,619,676	1,315,216	710,438	18,991,581	2,490,606	26,126,747
	$521,882	$865,827	$667,452	$377,241	$12,164,061	$1,619,692	$16,216,155
Tuna, bigeye.....	-	-	160	534	262,151	14,519	277,364
	-	-	$120	$474	$154,061	$21,034	$175,689
Tuna, bluefin.....	-	1,097	504	1,894	1,377,096	20,407	1,400,998
	-	$548	$385	$2,215	$896,278	$18,888	$918,314
Tuna, skipjack.....	-	147	110	3,030	48,394,098	20,499,598	68,896,983
	-	$51	$37	$1,361	$18,297,545	$6,510,764	$24,809,758
Tuna, yellowfin.....	506	-	-	7,192	61,440,224	15,851,264	77,299,186
	$177	-	-	$6,658	$30,909,844	$6,075,278	$36,991,957
Tuna, miscellaneous....	-	481	566	606	2,229,539	5,280	2,236,472
	-	$465	$485	$379	$3,594,743	$5,519	$3,601,591
Turbot.....	16,721	3,131	2,431	650	120	-	23,053
	$5,010	$740	$638	$172	$59	-	$6,619
Yellowtail.....	-	32,281	20,133	4,609	42,237	32,905	132,165
	-	$6,667	$5,019	$3,893	$33,782	$25,278	$74,639
Miscellaneous fish.....	134,679	54,001	10,538	61,833	63,376	25,516	349,943
	$2,251	$24,250	$5,988	$24,347	$31,571	$16,917	$105,324
Crustacean:							
Crab, Dungeness.....	4,654,524	628,352	28,251	28,451	48	462	5,340,088
	$7,061,120	$1,275,531	$73,253	$23,795	$23	$724	$8,434,446
Crab, rock.....	21,375	40,141	14,100	689,505	778,375	132,802	1,676,298
	$26,697	$31,980	$13,787	$572,672	$672,873	$105,657	$1,423,666
Crab, spider.....	28	-	-	33,139	22,302	869	56,338
	$49	-	-	$15,339	$9,309	$420	$25,117
Lobster, California spiny.....	-	283	-	145,427	150,322	148,966	444,998
	-	$1,122	-	$578,538	$603,145	$585,242	$1,768,047
Prawn, ridgeback.....	-	-	41	391,426	198,138	393	589,998
	-	-	$31	$239,238	$99,370	$935	$339,574
Prawn, spot.....	-	-	2,206	48,122	99	37	50,464
	-	-	$11,505	$219,622	$439	$132	$231,698
Shrimp, Pacific ocean..	1,350,767	10,657	165	215,424	51,979	-	1,628,992
	$613,270	$5,181	$185	$115,478	$24,059	-	$758,173
Shrimp, miscellaneous..	10,440	461	3,715	31,029	102	600	46,347
	$4,750	$387	$18,160	$163,803	$2042	-	$189,142
Miscellaneous crustacean....	648	1,137	47	173	207	840	3,052
	$194	$490	$34	$171	$268	$1,333	$2,490
Echinoderm:							
Sea cucumber.....	-	-	1	49,249	2,684	420	52,354
	-	-	-	$8,127	$1,165	$42	$9,334
Sea urchin.....	54,310	9,760	170	11,456,101	2,700,517	758,011	14,978,869
	$15,518	$3,023	$130	$2,758,495	$663,020	$196,161	$3,636,347
Miscellaneous echinoderm....	117	-	8	-	77,941	30	78,096
	-	-	-	-	$13,548	$20	$13,568

Mollusk:							
Abalone, black.....	-	52	12	332,726	91,748	11,756	436,294
	-	$250	$58	$640,485	$182,777	$22,526	$846,096
Abalone, green.....	-	-	-	1,760	24,704	5,446	31,910
	-	-	-	$6,014	$100,903	$19,538	$126,455
Abalone, pink.....	-	-	-	28,594	20,118	8,318	57,030
	-	-	-	$99,463	$73,710	$28,876	$202,049
Abalone, red.....	-	52,957	866	222,978	5,266	17,692	299,759
	-	$361,618	$4,906	$692,527	$16,313	$67,552	$1,142,916
Abalone, white.....	71	-	-	132	62	184	449
	$18	-	-	$579	$254	$834	$1,685
Abalone, miscellaneous.	-	73	-	1,163	-	-	1,236
	-	$290	-	$7,211	-	-	7,501
Clam.....	500	3,121	1,205	1,527	1,049	80	7,482
	$32	$735	$242	$928	$1,305	-	$3,242
Mussel.....	500	6,682	-	20	456	-	7,658
	$635	$6,322	-	$19	$228	-	$7,204
Octopus.....	9,035	3,801	636	1,330	518	201	15,521
	$5,935	$2,248	$482	$666	$2,167	$277	$11,775
Snail, sea.....	-	5,559	1,900	5,498	18,420	1,577	32,954
	-	$4,690	$760	$1,670	$5,877	$455	$13,452
Squid, market.....	123	213,769	861,720	21,606	146,207	33	1,243,458
	$85	$54,951	$203,327	$10,007	$36,132	$25	$304,527
Miscellaneous mollusk..	-	197	586	2,223	5,214	20	8,240
	-	$170	$140	$13,538	$41,045	$200	$55,093
Total pounds.....	50,730,865	38,023,024	46,229,305	28,619,517	243,403,929	43,842,359	450,848,999
Total value.....	$19,844,222	$16,701,764	$7,360,136	$13,382,991	$90,720,777	$20,316,160	$168,326,050
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	14,942,404	2,175,736	17,118,140
	-	-	-	-	$11,915,646	$1,931,479	$13,847,125
Tuna, bigeye.....	-	-	-	-	1,840	-	1,840
	-	-	-	-	$920	-	$920
Tuna, skipjack.....	-	-	-	-	17,081,810	4,279,670	21,361,480
	-	-	-	-	$6,223,368	$1,354,622	$7,577,990
Tuna, yellowfin.....	-	-	-	-	1,492,864	-	1,492,864
	-	-	-	-	$766,551	-	$766,551
Tuna, miscellaneous....	-	-	-	-	5,472,657	-	5,472,657
	-	-	-	-	$5,217,688	-	$5,217,688
Total pounds.....	-	-	-	-	38,991,575	6,455,406	45,446,981
Total value.....	-	-	-	-	$24,124,173	$3,286,101	$27,410,274
Grand total pounds..	50,730,865	38,023,024	46,229,305	28,619,517	282,395,504	50,297,765	496,295,980
Grand total value...	$19,844,222	$16,701,764	$7,360,136	$13,382,991	$114,844,950	$23,602,261	$195,735,930

TABLE 12. Value of Landings and Shipments of Commercial Fish Into California by Area, 1985

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	570,611	2,509,190	354,970	149,794	-	3,584,565
	-	$65,340	$150,062	$47,143	$16,334	-	$278,879
Barracuda, California..	-	100	-	19,986	45,791	2,148	68,025
	-	$10	-	$18,205	$42,400	$1,645	$62,260
Bass, giant sea.....	-	-	95	5,927	3,928	1,859	11,809
	-	-	$189	$6,017	$4,563	$2,620	$13,389
Bonito, Pacific.....	-	174	4,767	240,849	5,837,283	6,181	6,089,254
	-	$96	$1,232	$24,314	$558,844	$1,873	$586,359
Butterfish, Pacific....	-	2,438	2,892	2,036	3,326	93	10,785
	-	$1,488	$6,275	$1,383	$2,249	$67	$11,462
Cabezon.....	2,601	8,403	10,698	647	147	10	22,506
	$674	$1,438	$3,262	$167	$96	$2	$5,639
Croaker, white.....	7,642	445,576	404,030	348,738	225,090	6,056	1,437,132
	$33	$152,453	$128,260	$167,125	$74,261	$4,106	$526,238
Flounder, arrowtooth...	76,673	6,362	-	262	-	-	83,297
	$7,696	$2,137	-	$61	-	-	$9,894
Flounder, starry.....	113,152	241,173	21,887	7,555	-	30	383,797
	$39,922	$82,684	$6,944	$3,082	-	$30	$132,662
Flounder, miscellaneous	2,051	101,819	47,415	21,264	31	9	172,589
	$736	$34,431	$17,320	$9,093	$14	$3	$61,597
Flyingfish.....	-	-	30	763	52,392	-	53,185
	-	-	$15	$496	$23,071	-	$23,582
Grenadier.....	133,354	170	399	10	-	-	133,933
	$13,347	$17	$40	$1	-	-	$13,405
Hake, Pacific.....	6,598,313	5,514	877	25	-	-	6,604,729
	$393,451	$620	$611	$16	-	-	$394,698
Halibut, California...	669	236,195	73,207	499,820	315,121	131,363	1,256,375
	$984	$387,198	$132,718	$909,554	$609,737	$246,491	$2,286,682
Herring, Pacific.....	195,282	17,271,874	135,048	4	-	-	17,602,208
	$147,598	$5,830,416	$52,497	$1	-	-	$6,030,512
Lingcod.....	678,888	728,263	69,234	35,637	13,984	5,563	1,531,569
	$203,186	$206,030	$21,796	$13,933	$8,737	$3,448	$457,130
Mackerel.....	-	32,719	6,464,978	8,397,119	83,494,356	41,543	98,430,715
	-	$6,734	$384,396	$608,299	$6,814,221	$16,725	$7,830,375
Mullet, striped	-	-	-	-	-	30,272	30,272
	-	-	-	-	-	$19,967	$19,967
Opah.....	-	4,992	22,841	114,039	100,135	152,866	394,873
	-	$1,328	$5,983	$31,668	$22,764	$50,628	$112,371
Ray, miscellaneous.....	-	19	25	-	995	29	1,068
	-	$6	-	-	$13,402	$22	$13,430
Rockfish group,	42,921	1,710,204	2,215,839	1,309,431	800,468	150,454	6,229,317
bocaccio/chili	$10,770	$484,423	$638,865	$497,855	$328,461	$74,514	$2,034,888
Rockfish group, red....	826,035	678,304	128,666	411,671	311,804	117,538	2,474,018
	$221,622	$241,861	$57,881	$419,226	$289,207	$68,271	$1,298,068
Rockfish group,	560,150	477,616	306,050	249,668	285	208	1,593,977
rosefish	$129,915	$111,619	$56,250	$56,122	$71	$104	$354,081
Rockfish, widow.....	4,587,224	1,641,190	295,656	133	624	-	6,524,827
	$1,139,861	$420,419	$80,738	$87	$300	-	$1,641,405

Rockfish, miscellaneous	5,069,259	5,796,450	2,133,443	1,025,245	435,558	1,546,432	16,006,387
	$1,317,954	$1,777,499	$600,989	$501,513	$369,738	$799,209	$5,366,902
Sablefish	6,655,234	2,588,815	1,063,032	917,521	72,309	8,884	11,305,795
	$1,628,176	$749,337	$227,589	$196,266	$18,922	$5,194	$2,825,484
Salmon	2,008,285	2,153,997	410,461	71,663	-	-	4,644,406
	$4,807,761	$5,568,957	$1,128,478	$217,889	-	-	$11,723,085
Sanddab, Pacific	490,712	318,749	114,726	18,197	2,918	26,115	971,417
	$176,976	$115,442	$43,187	$5,075	$2,298	$26,855	$369,833
Sardine, Pacific	-	-	4,748	625	7,503	-	12,876
	-	-	$538	$63	$814	-	$1,415
Sculpin	-	179	-	666	28,052	5,604	34,501
	-	$118	-	$667	$24,876	$4,973	$30,634
Seabass, white	-	16	1,507	61,912	40,694	21,251	125,380
	-	-	$2,822	$120,114	$78,286	$41,267	$242,489
Shark, bigeye thresher	-	896	21,712	12,375	40,838	47,135	122,956
	-	$448	$15,224	$10,429	$29,536	$40,301	$95,938
Shark, bonito	-	1,885	6,254	44,441	93,135	80,980	226,695
	-	$1,699	$4,745	$36,940	$81,830	$67,999	$193,213
Shark, common thresher	2,632	65,769	99,175	515,627	387,507	470,089	1,540,799
	$3,158	$80,401	$112,266	$616,416	$437,393	$561,931	$1,811,565
Shark, Pacific angel	-	3,561	2,651	1,211,277	12,049	18,949	1,248,487
	-	$1,966	$1,017	$561,839	$4,363	$7,810	$576,995
Shark, soupfin	6,441	42,644	19,272	76,851	41,319	91,213	277,740
	$5,357	$32,309	$8,896	$52,306	$38,243	$75,020	$212,131
Shark, miscellaneous	9,519	146,940	46,273	27,457	24,530	23,232	277,951
	$6,909	$78,174	$31,871	$15,880	$23,470	$26,995	$183,299
Sheephead, California	-	-	-	19,264	7,026	2,210	28,500
	-	-	-	$8,065	$9,814	$960	$18,839
Skate	98,936	53,963	27,703	9,949	4,135	1,151	195,837
	$24,797	$13,559	$5,956	$2,607	$1,618	$370	$48,907
Smelt, top or jack	75	5,258	1,007	211	1,962	50	8,563
	$11	$1,536	$192	$62	$490	$23	$2,314
Smelt, true	356,253	12,358	4,290	82	285	-	373,268
	$58,989	$4,251	$910	$23	$90	-	$64,263
Smelt, whitebait	676,918	22,286	2,831	-	210	-	702,245
	$179,343	$8,079	$1,148	-	$51	-	$188,621
Sole, Dover	15,343,782	3,357,024	1,620,183	6,176,466	1,938	-	26,499,393
	$3,830,504	$772,233	$325,492	$1,370,769	$485	-	$6,299,483
Sole, English	1,130,267	803,843	285,068	122,764	-	-	2,341,942
	$388,485	$279,430	$86,993	$44,426	-	-	$799,334
Sole, petrale	916,585	429,007	227,578	313,589	1,325	310	1,888,394
	$658,722	$308,298	$154,627	$271,569	$1,350	$416	$1,394,982
Sole, rex	1,103,837	318,125	120,509	435,405	1,368	-	1,979,244
	$398,497	$115,977	$38,212	$154,906	$492	-	$708,084
Sole, sand	76,417	191,837	14,919	301	-	-	283,474
	$49,183	$122,758	$7,141	$174	-	-	$179,256
Sole, miscellaneous	57,330	62,213	16,343	25,474	3,444	4,607	169,411
	$17,774	$23,654	$4,083	$10,113	$2,646	$5,811	$64,081
Surfperch	44,405	38,117	2,976	12,038	9,952	14,590	122,078
	$28,871	$44,365	$2,760	$12,215	$7,718	$8,540	$104,469
Swordfish	-	186,742	209,504	1,849,139	1,897,869	1,053,431	5,196,685
	-	$441,648	$534,852	$4,482,425	$4,996,826	$2,993,278	$13,449,029
Thornyhead	4,345,169	461,779	312,880	1,360,034	-	5,795	6,485,657
	$1,098,260	$116,125	$74,016	$327,583	-	$7,244	$1,623,228
Tuna, albacore	2,797,997	902,635	1,667,318	865,616	6,892,376	1,071,060	14,197,002
	$1,287,503	$456,988	$800,831	$410,991	$3,883,639	$567,475	$7,407,427

TABLE 12 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1985

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bigeye.....	440	-	866	598	1,540	11,180	14,624
	$194	-	$734	$487	$1,037	$15,084	$17,536
Tuna, bluefin.....	-	81	133	4,035	7,160,455	8,595	7,173,299
	-	$58	$104	$2,957	$2,930,993	$10,039	$2,944,151
Tuna, skipjack.....	-	-	-	-	6,554,190	8,000	6,562,190
	-	-	-	-	$1,920,065	$2,373	$1,922,438
Tuna, yellowfin.....	1	1,243	671	6,089	33,067,222	48,089	33,123,315
	$2	$1,036	$681	$4,553	$14,820,772	$42,393	$14,869,437
Tuna, miscellaneous....	432	620	215	2,848	1,032,630	247	1,036,992
	$270	$351	$172	$2,252	$886,444	$227	$889,716
Turbot.....	21,633	5,472	1,501	1,107	2	14	29,729
	$6,516	$1,285	$421	$654	$1	$7	$8,884
Yellowtail.....	-	26,887	138	34,682	46,058	151,994	259,759
	-	$8,839	$43	$25,792	$25,857	$108,505	$169,036
Miscellaneous fish.....	198,606	22,831	12,929	37,078	20,743	19,640	311,827
	$2,233	$8,965	$7,247	$27,043	$17,373	$16,268	$79,129
Crustacean:							
Crab, Dungeness.....	5,596,776	585,841	12,258	14,389	200	808	6,210,272
	$7,684,471	$1,195,708	$29,261	$16,995	$326	$638	$8,927,399
Crab, rock.....	18,662	48,690	1,437	684,376	867,002	119,668	1,739,835
	$26,507	$41,605	$2,259	$584,074	$775,290	$107,454	$1,537,189
Lobster, California spiny.....	-	128	-	129,418	131,768	186,534	447,848
	-	$544	-	$518,974	$585,470	$839,492	$1,944,480
Prawn, ridgeback.....	-	-	-	808,673	87,799	344	896,816
	-	-	-	$517,476	$32,748	$603	$550,827
Prawn, spot.....	-	10	9,450	46,132	166	8,183	63,941
	-	$51	$52,555	$246,943	$316	$30,195	$330,060
Shrimp, Pacific ocean..	3,343,853	-	1,291	35,973	-	-	3,381,117
	$1,166,697	-	$406	$20,211	-	-	$1,187,314
Shrimp, miscellaneous..	819	789	308	8,633	26	-	10,575
	$328	$2,257	$1,613	$39,000	$1,726	-	$44,924
Miscellaneous crustacean....	-	48	1,317	20,698	18,242	3,129	43,434
	-	-	$4,890	$10,924	$8,021	$1,653	$25,488
Echinoderm:							
Sea urchin.....	1,919,346	3,868	550	14,614,852	2,825,138	634,437	19,998,191
	$309,669	$928	$200	$3,651,158	$707,146	$168,592	$4,837,693
Miscellaneous echinoderm....	-	-	-	56,998	15,499	230	72,727
	-	-	-	$11,051	$3,972	$92	$15,115
Mollusk:							
Abalone, black.....	-	37	-	260,426	96,783	2,589	359,835
	-	$86	-	$549,638	$230,936	$6,563	$787,223
Abalone, green.....	-	83	-	2,089	21,035	745	23,952
	-	$417	-	$8,414	$91,405	$2,527	$102,763
Abalone, pink.....	-	17	-	42,349	21,807	4,450	68,623
	-	$153	-	$157,321	$83,741	$17,425	$258,640
Abalone, red.....	-	90,855	-	248,656	7,414	21,857	368,782
	-	$315,603	-	$839,928	$25,124	$91,196	$1,271,851
Abalone, white.....	-	-	-	10	1,644	-	1,654
	-	-	-	$60	$9,664	-	$9,724

Abalone, miscellaneous.	-	1,015	-	6	-	1	1,022
	-	$3,554	-	$31	-	-	$3,585
Clam.....	-	5,648	-	44,081	581	-	50,310
	-	$2,054	-	$29,956	$416	-	$32,426
Mussel.....	66	8,709	-	-	50	605	9,430
	$66	$8,320	-	-	$30	$121	$8,537
Octopus.....	12,520	1,026	138	947	583	46	15,260
	$8,790	$660	$97	$543	$2,829	$54	$12,973
Snail, sea.....	-	114	-	7,594	26,314	78	34,100
	-	$56	-	$3,371	$12,620	$983	$17,030
Squid, market.....	40	169,668	8,403,927	7,250,541	6,827,710	575	22,652,461
	$12	$28,305	$1,820,394	$848,236	$1,022,273	$144	$3,719,364
Miscellaneous mollusk..	-	-	111	1,287	4,822	-	6,220
	-	-	$87	$8,752	$65,167	-	$74,006
Total pounds.....	66,128,202	43,102,484	29,597,427	51,559,308	160,201,279	6,371,348	356,960,048
Total value.....	$27,482,780	$20,766,834	$7,881,333	$20,371,967	$43,085,482	$7,194,815	$126,783,211
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	6,194,007	-	6,194,007
	-	-	-	-	$4,011,223	-	$4,011,223
Tuna, skipjack.....	-	-	-	-	980,968	-	980,968
	-	-	-	-	$291,011	-	$291,011
Tuna, miscellaneous....	-	-	-	-	2,877,055	-	2,877,055
	-	-	-	-	$1,612,087	-	$1,612,087
Total pounds.....	-	-	-	-	10,052,030	-	10,052,030
Total value.....	-	-	-	-	$5,914,321	-	$5,914,321
Grand total pounds..	66,128,202	43,102,484	29,597,427	51,559,308	170,253,309	6,371,348	367,012,078
Grand total value...	$27,482,780	$20,766,834	$7,881,333	$20,371,967	$48,999,803	$7,194,815	$132,697,532

TABLE 13. Value of Landings and Shipments of Commercial Fish Into California by Area, 1986

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	865,641	1,781,819	382,523	354,796	-	3,384,779
	-	$91,839	$122,894	$45,776	$35,051	-	$295,559
Barracuda, California..	-	-	-	1,929	50,190	4,024	56,143
	-	-	-	$1,731	$47,728	$3,498	$52,957
Bass, giant sea.....	-	-	41	6,049	4,039	2,824	12,953
	-	-	$56	$6,329	$4,173	$3,677	$14,235
Bonito, Pacific.....	-	700	556	12,832	509,905	8,785	532,778
	-	$385	$460	$4,630	$73,103	$4,556	$83,134
Butterfish, Pacific....	-	29,510	7,671	4,131	3,154	104	44,570
	-	$7,602	$7,464	$3,636	$2,836	$31	$21,569
Cabezon.....	761	12,159	1,720	1,126	213	21	16,000
	$304	$3,257	$529	$304	$106	$13	$4,513
Croaker, white.....	817	491,513	272,707	229,150	250,146	984	1,245,317
	$204	$170,061	$90,041	$112,614	$109,313	$920	$483,153
Dolphinfish.....	-	-	-	-	-	3,453	3,453
	-	-	-	-	-	$756	$756
Flounder, arrowtooth...	40,927	410	-	115	-	-	41,452
	$4,324	$121	-	$21	-	-	$4,466
Flounder, starry.....	67,833	161,738	40,015	6,524	-	-	276,110
	$25,405	$60,702	$15,105	$2,757	-	-	$103,969
Flounder, miscellaneous	14	39,771	59,070	23,909	1,739	26	124,529
	$5	$15,145	$26,609	$10,531	$934	$30	$53,254
Flyingfish.....	-	-	-	-	62,132	-	62,132
	-	-	-	-	$30,394	-	$30,394
Grenadier.....	135,990	208	-	153	-	-	136,351
	$13,915	$27	-	$16	-	-	$13,958
Guitarfish, shovelnose.	-	-	71	9,994	2,924	631	13,620
	-	-	$21	$3,710	$1,947	$299	$5,977
Hake, Pacific.....	6,564,861	6,948	547	356	1,696	437	6,574,845
	$381,172	$1,008	$110	$64	$838	$139	$383,331
Halfmoon.....	-	-	-	-	1,598	737	2,335
	-	-	-	-	$1,225	$538	$1,763
Halibut, California....	1,069	202,773	68,916	600,635	221,456	89,241	1,184,090
	$1,279	$377,187	$136,968	$1,206,039	$463,827	$179,730	$2,365,030
Halibut, Pacific.....	34,486	-	-	-	-	-	34,486
	$59,219	-	-	-	-	-	59,219
Herring, Pacific.....	190,500	16,382,068	310,357	173	-	-	16,883,098
	$120,015	$5,298,403	$26,053	$61	-	-	$5,444,532
Lingcod.....	591,625	400,345	107,810	41,855	8,859	3,326	1,153,820
	$205,047	$139,591	$39,207	$17,862	$5,799	$2,060	$409,566
Mackerel.....	100	26,856	4,803,814	11,695,292	100,002,302	21,144	116,549,508
	$20	$5,478	$298,366	$836,014	$7,439,992	$6,228	$8,586,098
Mullet, striped.....	-	-	-	-	2,000	25,187	27,187
	-	-	-	-	$300	$17,337	$17,637
Opah.....	95	7,639	11,196	29,060	67,009	103,770	218,769
	-	$2,716	$3,259	$9,138	$16,091	$39,921	$71,125
Ray, miscellaneous.....	-	-	-	523	866	-	1,389
	-	-	-	$314	$10,024	-	$10,338

Rockfish, blackgill....	-	635	-	43,637	193,243	47,118	284,633
	-	$127	-	$23,561	$82,306	$27,755	$133,749
Rockfish group, bocaccio /chili	9,821	1,790,023	2,394,333	1,540,826	848,434	183,054	6,766,491
	$2,800	$570,230	$757,117	$623,370	$363,370	$88,115	$2,405,002
Rockfish group, red....	680,489	406,556	172,878	392,780	362,015	73,215	2,087,933
	$215,903	$214,869	$89,450	$404,085	$344,456	$50,577	$1,319,340
Rockfish group, rosefish.....	290,755	351,167	465,327	247,051	450	4,384	1,359,134
	$75,146	$89,304	$107,189	$61,012	$158	$1,700	$334,509
Rockfish, widow.....	3,695,428	1,318,457	247,829	650	2,600	1,627	5,266,591
	$1,022,618	$372,928	$79,101	$228	$1,820	$602	$1,477,297
Rockfish, miscellaneous	3,346,238	4,674,830	2,726,415	2,704,530	250,335	1,742,250	15,444,598
	$993,724	$1,585,132	$901,698	$1,196,801	$214,113	$923,305	$5,814,773
Sablefish.....	7,690,200	3,368,169	1,271,945	637,312	613,749	4,561	13,585,936
	$2,505,147	$1,376,777	$318,095	$186,421	$299,640	$2,716	$4,688,796
Salmon.....	2,920,869	2,782,632	1,069,250	831,147	248	-	7,604,146
	$5,229,829	$5,611,917	$2,319,559	$1,966,549	$733	-	$15,128,587
Sanddab, Pacific.....	323,306	554,690	80,856	4,349	1,128	16,968	981,297
	$119,637	$204,539	$27,449	$1,611	$1,265	$17,782	$372,283
Sardine, Pacific.....	-	1	186,179	38,510	631,754	-	856,444
	-	-	$18,155	$3,005	$60,443	-	$81,603
Sculpin.....	-	204	-	491	12,437	2,412	15,544
	-	$360	-	$582	$12,852	$1,936	$15,730
Seabass, white.....	-	249	1,628	69,473	27,035	8,286	106,671
	-	$472	$2,925	$138,792	$56,511	$16,510	$215,210
Shark, bigeye thresher.	-	-	1,895	8,017	20,050	32,780	62,742
	-	-	$1,694	$9,385	$26,088	$30,470	$67,637
Shark, bonito.....	41	4,900	4,643	38,067	182,474	243,559	473,684
	-	$4,233	$4,077	$34,032	$158,144	$227,844	$428,330
Shark, common thresher.	4,716	24,127	52,756	191,904	190,687	142,405	606,595
	$5,207	$35,292	$72,635	$272,849	$280,522	$200,753	$867,258
Shark, leopard.....	881	25,188	7,826	17,192	16,519	7,135	74,741
	$1,472	$10,627	$4,233	$11,447	$16,922	$6,592	$51,293
Shark, Pacific angel...	-	2,354	3,004	1,187,770	33,201	14,801	1,241,130
	-	$1,082	$1,178	$585,392	$14,348	$7,160	$609,160
Shark, soupfin.....	13,527	18,545	12,179	60,418	43,025	64,585	212,279
	$14,842	$16,894	$5,958	$38,534	$40,300	$60,348	$176,876
Shark, miscellaneous...	1,665	94,297	21,414	44,096	27,913	11,816	201,201
	$1,351	$44,882	$11,605	$23,322	$22,761	$9,094	$113,015
Sheephead, California..	-	-	-	17,128	10,001	2,123	29,252
	-	-	-	$6,970	$9,530	$1,443	$17,943
Skate.....	65,642	42,602	32,831	5,365	3,581	104	150,125
	$16,884	$11,004	$7,599	$1,269	$1,394	$31	$38,181
Smelt, top or jack.....	1,147	813	1,218	69	1,655	-	4,902
	$115	$421	$418	$30	$689	-	$1,673
Smelt, true.....	195,013	7,540	2,450	30	-	-	205,033
	$34,932	$3,451	$1,232	$19	-	-	$39,634
Smelt, whitebait.....	403,587	17,762	7,334	-	-	-	428,683
	$103,675	$5,851	$2,316	-	-	-	$111,842
Sole, Dover.....	13,960,019	6,292,375	1,534,917	2,578,108	-	-	24,365,419
	$3,663,994	$1,603,498	$307,869	$629,818	-	-	$6,205,179
Sole, English.....	1,057,063	877,364	338,759	111,476	1,327	-	2,385,989
	$395,874	$326,824	$104,347	$43,617	$630	-	$871,292
Sole, petrale.....	552,192	395,187	166,277	484,616	1,225	903	1,600,400
	$404,858	$302,522	$120,375	$438,648	$1,239	$1,131	$1,268,773
Sole, rex.....	1,039,926	408,144	154,805	252,994	310	-	1,856,179
	$384,661	$151,753	$55,762	$90,418	$114	-	$682,708

TABLE 13 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1986

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Sole, sand.....	56,233	287,355	8,212	2,550	-	16	354,366
	$37,216	$188,870	$5,015	$912	-	$16	$232,029
Sole, miscellaneous....	31,875	52,327	15,718	33,700	6,169	3,902	143,691
	$8,562	$17,543	$4,627	$13,550	$3,384	$3,681	$51,347
Surfperch.....	35,001	38,258	2,949	22,338	14,422	12,015	124,983
	$28,309	$28,319	$1,424	$23,429	$10,477	$7,615	$99,573
Swordfish.....	1,059	205,475	255,554	893,184	1,270,130	1,220,530	3,845,932
	$3,018	$664,492	$811,048	$2,876,383	$4,358,113	$4,126,722	$12,839,776
Thornyhead.....	4,885,358	614,126	307,163	686,428	1,485	-	6,494,560
	$1,377,170	$171,868	$71,293	$187,992	$413	-	$1,808,736
Tuna, albacore.....	1,497,737	581,528	1,098,219	950,528	2,928,837	191,324	7,248,173
	$814,606	$326,009	$569,343	$494,930	$1,592,403	$112,123	$3,909,414
Tuna, bigeye.....	-	-	550	1,935	21,084	39,747	63,316
	-	-	$605	$2,683	$14,914	$71,408	$89,610
Tuna, bluefin.....	-	-	180	1,045	10,421,802	8,017	10,431,044
	-	-	$180	$1,086	$8,094,712	$10,659	$8,106,637
Tuna, skipjack.....	9	-	774	-	2,726,509	273,048	3,000,340
	$5	-	$176	-	$550,080	$51,094	$601,355
Tuna, yellowfin.....	-	192	405	2,847	47,151,000	281,729	47,436,173
	-	$384	$220	$2,455	$41,571,460	$157,310	$41,731,829
Tuna, miscellaneous....	-	1,060	893	1,453	307,433	4,697	315,536
	-	$658	$712	$1,344	$186,978	$8,539	$198,231
Turbot.....	14,989	2,621	235	2,002	-	-	19,847
	$4,584	$615	$76	$732	-	-	$6,007
Yellowtail.....	-	7,756	180	12,353	21,358	16,099	57,746
	-	$2,994	$91	$10,647	$12,645	$15,681	$42,058
Miscellaneous fish.....	116,774	10,488	48,955	13,348	21,276	5,852	216,693
	$3,189	$6,249	$19,962	$10,413	$28,079	$6,618	$74,510
Crustacean:							
Crab, Dungeness.....	6,541,988	1,206,500	625	6,589	2,575	-	7,758,277
	$8,696,036	$2,318,143	$831	$6,713	$2,495	-	$11,024,218
Crab, rock.....	16,646	67,482	2,284	735,442	1,041,373	234,181	2,097,408
	$24,345	$88,819	$2,075	$654,941	$949,460	$234,699	$1,954,339
Lobster, California spiny.....	-	-	53	122,682	164,699	201,370	488,804
	-	-	$318	$546,372	$757,014	$923,763	$2,227,467
Prawn, ridgeback.....	-	-	-	545,081	122,983	2,509	670,573
	-	-	-	$472,344	$116,546	$2,705	$591,595
Prawn, spot.....	-	391	7,850	41,199	48,847	4,199	102,486
	-	$1,594	$40,531	$216,962	$180,885	$17,333	$457,305
Shrimp, Pacific ocean..	5,886,444	1,475	-	869,093	806	-	6,757,818
	$3,141,953	$2,213	-	$470,942	$518	-	$3,615,626
Shrimp, miscellaneous..	2,784	14,529	2,614	3,701	1,575	3,365	28,568
	$1,252	$38,951	$15,170	$9,717	$8,333	$11,596	$85,019
Miscellaneous crustacean....	639	2,249	299	39,510	35,395	5,207	83,299
	$867	$4,340	$313	$22,671	$18,340	$2,772	$49,303
Echinoderm:							
Sea cucumber.....	-	-	-	75,050	2,867	50	77,967
	-	-	-	$15,221	$1,336	$11	$16,568
Sea urchin.....	7,503,173	2,671,198	-	18,253,614	5,105,523	600,517	34,134,025
	$1,807,165	$599,207	-	$5,652,179	$1,455,879	$185,549	$9,699,979

Miscellaneous	-	7	-	40	5,209	-	5,256
echinoderm....	-	$10	-	$52	$1,229	-	$1,291
Mollusk:							
Abalone, black.....	5,920	-	996	185,925	74,391	220	267,452
	$1,567	-	$2,390	$432,308	$172,971	$474	$609,710
Abalone, green.....	-	-	-	2,292	21,799	1,659	25,750
	-	-	-	$10,593	$99,770	$8,259	$118,622
Abalone, pink.....	-	54	-	24,040	24,955	2,781	51,830
	-	$312	-	$95,326	$109,046	$13,657	$218,341
Abalone, red.....	-	63,353	635	177,751	13,109	8,454	263,302
	-	$279,116	$3,407	$639,654	$51,260	$32,968	$1,006,405
Abalone, white.....	-	-	-	623	253	-	876
	-	-	-	$752	$1,933	-	$2,685
Abalone, miscellaneous.	-	375	-	1,869	3,580	-	5,824
	-	$2,883	-	$12,664	$22,837	-	$38,384
Clam.....	71	13,339	-	6,250	14,450	-	34,110
	$71	$3,519	-	$4,175	$10,240	-	$18,005
Octopus.....	10,985	919	110	981	408	54	13,457
	$9,175	$761	$70	$625	$4,534	$64	$15,229
Snail, sea.....	-	1,143	-	9,212	7,699	85	18,139
	-	$688	-	$3,444	$3,644	$1,336	$9,112
Squid, market.....	821	1,834,016	12,098,653	15,063,011	17,912,085	36	46,908,622
	$212	$214,639	$1,326,292	$1,498,982	$1,842,115	$11	$4,882,251
Miscellaneous mollusk..	10	150	306	1,875	4,225	16	6,582
	-	$116	$60	$6,655	$59,741	$160	$66,732
Total pounds.....	70,490,119	49,765,456	32,279,670	63,343,876	194,520,731	5,990,459	416,390,311
Total value.....	$31,962,880	$23,681,823	$8,965,407	$23,453,162	$72,547,813	$7,942,420	$168,553,504
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	3,496,916	-	3,496,916
	-	-	-	-	$1,874,414	-	$1,874,414
Tuna, skipjack.....	-	-	-	-	2,698,226	-	2,698,226
	-	-	-	-	$501,602	-	$501,602
Total pounds.....	-	-	-	-	6,195,142	-	6,195,142
Total value.....	-	-	-	-	$2,376,016	-	$2,376,016
Grand total pounds..	70,490,119	49,765,456	32,279,670	63,343,876	200,715,873	5,990,459	422,585,453
Grand total value...	$31,962,880	$23,681,823	$8,965,407	$23,453,162	$74,923,829	$7,942,420	$170,929,520

TABLE 14. Statewide Catch by Species of Commercial Passenger Fishing Vessels (Not including anchored barges)
1977-1986

Species	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Barracuda, California	48,701	73,174	69,434	27,909	69,924	73,135	81,989	87,414	75,448	88,118
Bass, kelp and sand	398,089	476,982	462,980	585,432	739,562	587,349	463,270	359,913	572,620	700,602
Bonito, Pacific	161,962	315,643	538,467	560,508	654,051	218,478	348,050	377,678	120,139	340,480
Cabezon	5,620	8,887	5,469	6,208	5,830	5,247	3,758	1,759	1,760	4,386
Halibut, California	6,982	5,409	6,329	6,517	11,440	11,804	5,682	3,209	7,090	7,848
Lingcod	46,521	65,869	75,826	89,349	65,604	49,791	30,543	23,797	20,603	25,585
Mackerel, jack	8,789	5,237	2,957	4,166	2,984	4,404	5,308	13,261	6,825	4,390
Mackerel, Pacific	484,722	940,204	1,272,038	1,315,971	1,007,198	914,238	630,003	604,324	695,708	605,716
Rockfish	3,216,071	2,955,435	3,713,670	3,315,952	3,315,718	3,089,655	2,346,270	2,015,791	2,043,129	1,802,017
Salmon	56,157	45,646	69,904	64,500	65,629	102,576	55,560	71,491	108,343	88,679
Sculpin	73,214	44,114	64,226	95,615	73,362	67,339	50,834	46,538	66,762	72,675
Seabass, white	2,096	433	1,352	1,004	887	1,899	1,003	973	1,045	1,634
Sheephead, California	28,512	34,409	31,995	34,368	46,479	37,242	68,972	38,522	35,934	36,707
Tuna, albacore	70,274	92,646	10,196	21,309	26,648	36,690	17,161	211,285	172,493	27,322
Tuna, bluefin	1,838	479	1,087	729	542	665	1,912	2,834	4,960	693
Whitefish, ocean	61,058	38,006	36,957	28,810	24,378	22,604	22,095	64,241	84,441	73,919
Yellowtail	34,141	38,528	71,483	44,246	88,911	37,308	178,688	96,016	45,509	42,005
All others	144,365	115,250	196,279	215,191	115,387	110,221	313,898	153,347	86,887	152,345
Total number of fish	4,849,472	5,256,351	6,630,658	6,407,784	6,314,534	5,370,645	4,624,996	4,172,393	4,149,696	4,075,121
Total number of anglers	716,536	732,460	786,347	761,958	830,653	773,473	691,792	701,737	711,787	660,294